



**In The Press**

## Optical Zonu Continues to Capture Media Attention

We have gathered recent Articles, Press Releases, Website, Blogs, Industry Magazines, and Newsletters where **Optical Zonu** has been featured or mention. We continue to make strides solutions for our customers no matter the industry. Our analog (RF) and digital fiber optic transport solutions are easy to install and design into your systems. Come see what others are saying about us.



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## Microwave Product Digest - October 31, 2024

### FEATURE ARTICLE

## The Essential Role of N+1 Redundancy in RF Over Fiber Communication Systems

by Meir Bartur, CEO, Optical Zonu

The ability to communicate over long distances has been crucial since the beginning of modern civilization. However, today's communications have never been more sophisticated and critical to innovation and national security. Between 24/7 data centers routinely transmitting exabytes of data to and from the cloud, the growth of high-frequency (and easily disrupted) military communications, as well as public safety radio systems, telecom infrastructure cannot afford even nanoseconds of downtime without placing data and operations at serious risk.

This is why businesses and government organizations can only afford to implement some type of network redundancy in radio frequency over fiber (RFOF) systems. Protection against a single point of failure can be achieved by duplication, but it is expensive, recovery is not necessarily automatic, and operational complexities make it

impractical. Where full or even half redundancy may not be economically plausible for most organizations, N+1 redundancy is perhaps the most efficient and reasonable way to protect communication systems.

### What is RFOF and Why Do Organizations Avoid Redundancies?

RFOF is typically the answer to a network operator's challenge of providing high-speed, resilient transport of RF signals over long distances in a way that traditional telecom infrastructure cannot support. It is a technology that transmits RF signals over optical fiber cables instead of coaxial cables. This method leverages the advantages of fiber optics, such as low signal loss, high bandwidth, and immunity to electromagnetic interference to transport RF signals over long distances with minimal degradation.

However, these hardware components, which

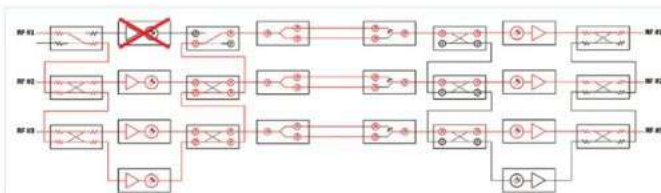


Figure 1: Transceiver 1 is problematic, so the signal is rerouted to the backup transceiver 4

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networks. The fibers are routed via different passes (not bundled)—and a cut or disconnect of a single fiber is detected. The 2x2 optical switching re-routes the signals to the spare fiber.

In practice, any combination of the N+1 configurations mentioned above

### Optical Zonu Enhances Its Network Management System

Optical Zonu has enhanced its CloudView Network Management System (NMS) with fiber fault detection and localization capabilities for its ZONUCONnect base transceiver station to distributed antenna system (DAS) fiber optic transport solutions. The updates give telecommunication operators and enterprises greater visibility into RF over Fiber (RFOF) network performance, allowing for quicker and more precise detection of fiber faults. This helps address network issues more effectively and prevent downtime.

The ZONUCONnect platform incorporates a proprietary micro-optical time domain reflectometer (uOTDR) within its pluggable modules, which can detect fiber faults within a few meters. However, accessing and utilizing uOTDR data for network issue resolution was not fully realized in the previous NMS. With the latest CloudView NMS upgrades, operators can now view a visual representation of the fiber path on terrain maps, with OTDR data overlaid on the management panel. This allows for pinpointing fiber faults and reflection events with precise map locations.

The NMS now also visualizes preventive fiber events, such as connector or patch-panel imperfections, rather than just fiber breaks. Addressing these issues is crucial for ensuring RFOF network reliability, as even minor imperfections in components can introduce significant loss, equivalent to a kilometer or more of fiber. Identifying and correcting these imperfections helps reduce total fiber loss and enhances BTS to DAS link performance.

For more information, visit Optical Zonu at [opticalzonu.com](http://opticalzonu.com).



(as opposed to each individually) can be used. For example, a network operator may want to deploy a second fiber and receiver but not the transceiver. However, the fewer redundancies an operator invests in, the more the probability of catastrophic failure increases. Certain premium RFOF hardware with smart optical switches can expertly reroute frequencies to adjust to the complexities of replacing just a singular transceiver, amplifier or switch. This will provide the necessary protection of these systems in the case of a fiber cut or component failure without the need for redundancy at every component.

placed backup components, N+1 redundancy ensures that essential communications remain uninterrupted even in the face of network failures.

This approach balances the high cost of full redundancy and the need for reliable, continuous service, making it an ideal choice for organizations that cannot afford downtime but must also manage resources efficiently. Despite a belief that telecom hardware is a commodity and a race to the bottom line, fiber-based system managers should work with the most skilled integrators and best RFOF products to ensure cost-effective N+1 redundancy.

### Summary

As seamless and uninterrupted communication is essential for innovation and national security, N+1 redundancy in RFOF systems offers a pragmatic solution to safeguarding critical telecom infrastructure without incurring prohibitive costs. By providing strategically

### Reference

1. What is Data Center Redundancy? N, N+1, 2N, 2N+1, CoreSight  
<https://www.coresight.com/blog/data-center-redundancy-n-1-vs-2n-1>

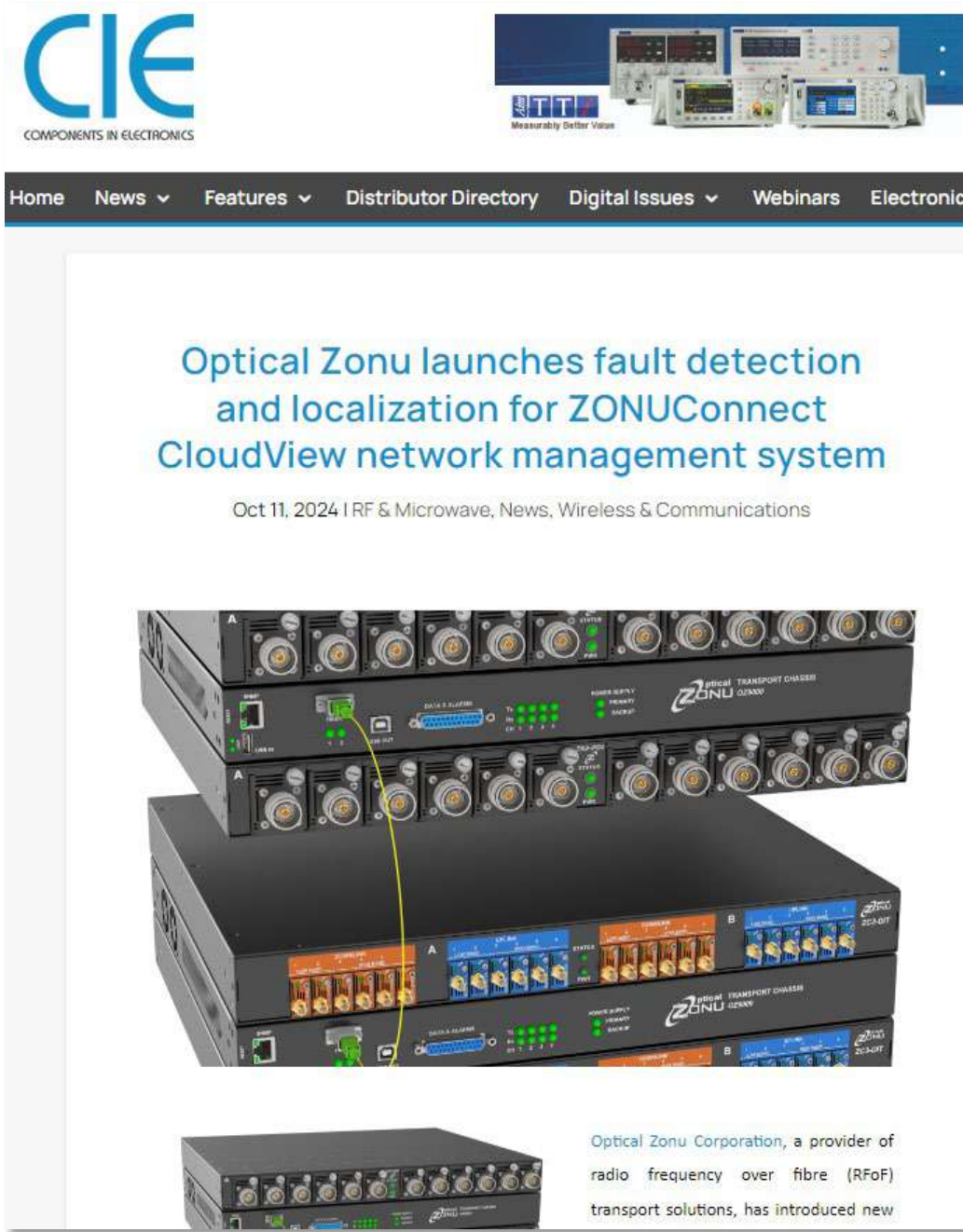
\* OPTICAL ZONU \*

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Components in Electronics - October 11, 2024



The screenshot shows a web article from Components in Electronics (CIE). The article title is "Optical Zonu launches fault detection and localization for ZONUConnect CloudView network management system". The byline is "Oct 11, 2024 | RF & Microwave, News, Wireless & Communications". The main image shows two Zonu Optical Transport Chassis (ZOC-OT) units. The top unit is labeled "A" and the bottom unit is labeled "B". Both units have multiple ports and a "ZONU" logo. A yellow cable is connected to the top unit. Below the main image is a smaller image of a Zonu unit. To the right of the smaller image is a text block: "Optical Zonu Corporation, a provider of radio frequency over fibre (RFOF) transport solutions, has introduced new".

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## **Optical Zonu's Management and Supervision - October 02, 2024**

Optical Zonu's market leading Management and Supervision highlighted in Microwave & RF Magazine:

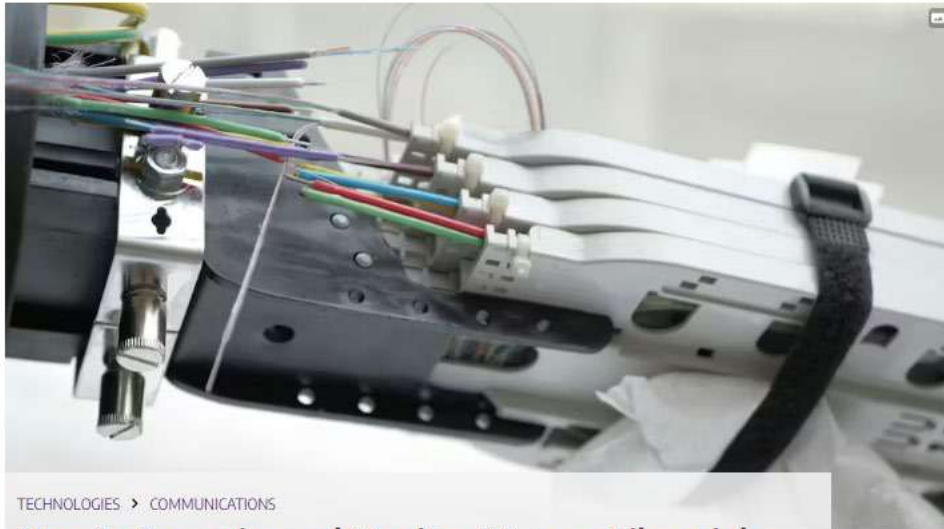
**OZC Website blog/news** - <https://www.opticalzonu.com/2024/10/how-to-supervise-and-monitor-rf-over-fiber-links/>

**LinkedIn** - [https://www.linkedin.com/posts/opticalzonu\\_how-to-supervise-and-monitor-rf-over-fiber-activity-7246941143467237376-clry?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/opticalzonu_how-to-supervise-and-monitor-rf-over-fiber-activity-7246941143467237376-clry?utm_source=share&utm_medium=member_desktop)

**Twitter/X** - <https://twitter.com/OpticalZonu>

**Microwaves & RF – September 26, 2024**

## Microwaves&RF



TECHNOLOGIES &gt; COMMUNICATIONS

### How to Supervise and Monitor RF-over-Fiber Links

Sept. 26, 2024

Even as RF over fiber (RToF) technology provides secure, resilient, long-distance data transmission, it's a technology that's short on standards. Learn how to get the most out of RToF links on a network-wide basis through effective supervision and monitoring.

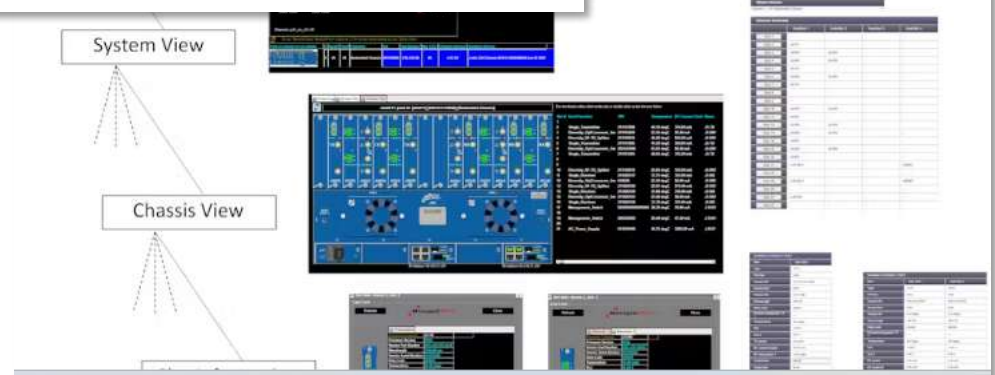
Meir Bartur

Related To: Optical Zonu

**What you'll learn:**

- Definitions of several levels of RToF supervision and monitoring.
- The crucial capabilities an organization needs to watch over RToF links at low cost.
- How to effectively deploy network-wide supervision and monitoring for RToF.

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## Microwaves & RF – September 23, 2024

# Microwaves & RF

### Products of the Week: September 23, 2024

Sept. 23, 2024

Here's this week's selection of some of the most interesting new products that have been launched of late.

Alix Paultre

Related To: Microwaves & RF



#### Network Management System Offers Fault Detection and Localization

Optical Zonu added fiber fault detection and localization capabilities to its CloudView Network Management System for the ZONUConnect base transceiver station to distributed antenna system fiber-optic transport solution. This additional functionality provides significant visibility into RFoF network performance, and more quickly and accurately detects the location of fiber faults. The ZONUConnect platform has a micro optical time-domain reflectometer in its pluggable modules to highlight fiber fault detection data within a few meters.

Additional upgrades to the CloudView NMS enable visual representation of the fiber pass on terrain maps, with OTDR data overlaid on the management panel to show fiber faults and reflection events with precise map locations. The Network Management System's ability to provide visualization of preventive fiber events, and not just fiber breaks, can solve issues that could render a RFoF network non-operational, locating imperfections to reduce total fiber loss and achieve better performance.

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## **ZONUConnect CloudView NMS – September 23, 2024**

Our ZONUConnect CloudView NMS was featured in many outlets, click on each link to see article details:



[Optical Zonu Launches Fault Detection and Localization for ZONUConnect CloudView Network Management System](#)



[Optical Zonu launches fault detection and localization](#)



[Optical Zonu Adds Fault Detection and Localization Capabilities to its DAS Fiber Optic Transport Solution](#)



[Products of the Week: September 23, 2024 - Network Management System Offers Fault Detection and Localization](#)



[Optical Zonu Releases Fault Detection and Localization for Its Network Management System](#)

## Microwave Product Digest – August 21, 2024







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### Plugin Modules for RF over Fiber



**OPTICAL ZONU**

The JXM series plugin modules for J-Chassis platforms extend RF and microwave over fiber transport into the Ku, K, Ka, Q, and V bands. They can have lower frequency roll-off as low as 20 kHz, and the JXM series of receivers offer a spurious-free dynamic range for a typical link of 108 dB/Hz. Noise figure, input 1 dB compression, and input third-order intercept performance can be optimized for various optical loss budgets.

**OPTICAL ZONU**

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IN THE NEWS

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**Keysight, Ettifos, and Autotalks Make First 3GPP Release 18 Sidelink Radio Interoperability Connection**

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**PPI Announces New Single Layer Capacitor Line**

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The July 2024 issue of Microwave Product Digest is now available.



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everythingRF – June 13, 2024

everythingRF

## Exploring GNSS Timing Applications Using RF-over-Fiber

Aerospace & Defense Antennas GNSS IoT



Meir Bartur, President and CEO of Optical Zonu - Optical Zonu

Jun 13, 2024



Oftentimes people confuse truly remarkable technologies with the mundane simply because "it just works." There is no evidence of this quite like with wireless communication. There are countless mission-critical data transactions happening every moment across industries including telecommunications, finance, power & utilities, navigation and [military & defense](#). The accuracy and stability of those transactions rely on the perfect synchronization of internal clocks that are constantly drifting ever-so-slightly from one another. If there aren't mechanisms put in place to keep these clocks synchronized, there can be significant data corruption at best or even a failure to communicate.

This is becoming especially challenging now that communication is more advanced and complex with each passing day. The growth of the [Internet of Things \(IoT\)](#) introduces new connections requiring synchronization, endpoints are more geographically dispersed, and many industries are taking advantage of higher radio frequencies (RF) for low latency and higher throughput at the expense of resiliency. It is important to understand the role of timing across different applications in relation to these changes and why fiber is playing a crucial role in ensuring communication can still happen as efficiently and effectively as before.



Up to 128 GPS RF Connections

port transmitter that combines the channels into a with a transport receiver or base unit. Depending split between 8 to 32 ways to 32 receivers with ections. Special circumstances sometimes and the number of endpoints requiring timing ant since both channels are routed together.

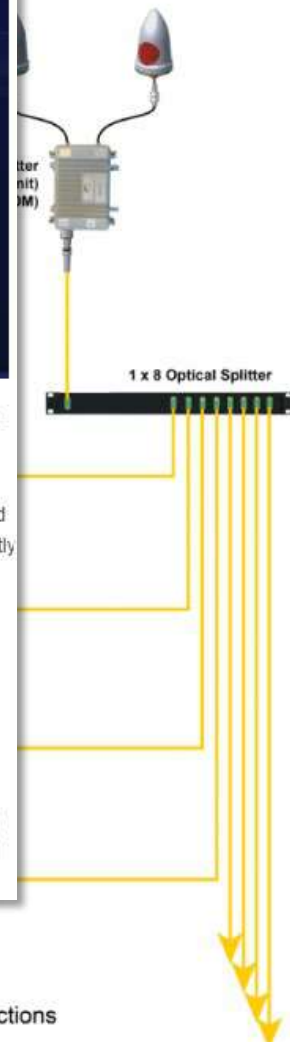


Figure 1: GPS over fiber network – single fiber 8 splits ->128 endpoints redundant Antenna/Transmitter/Receiver.

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**everythingRF – April 10, 2024****everythingRF**

## Exploring Antenna Remoting Using RFoF: Revolutionizing Communication Technology

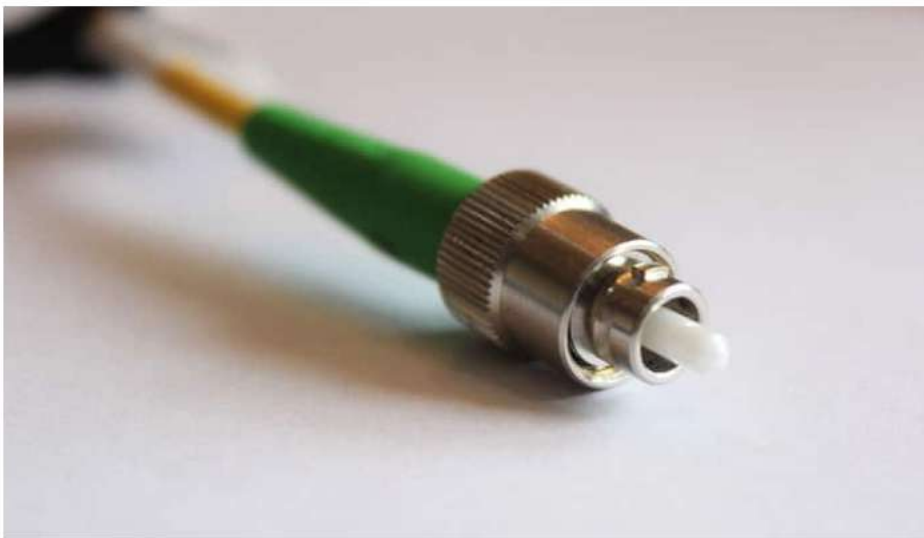
Antennas

Fiber Optics



Meir Bartur - Optical Zonu

Apr 10, 2024



Across industries, applications and deployment fields, wireless communication is happening more often but the need to transmit radio frequency (RF) signals over extended distances in cables ("wires") with minimal loss is growing at a significant pace.

This is especially challenging now that higher frequency bands are deployed to take advantage of higher capacity and faster data rates at the cost of resiliency. For example, high frequencies used in 5G cellular communication, such as mmWave, can produce significantly more throughput but are also more easily interrupted by any natural or man-made obstacles where line of sight is required. This shift is also happening in military communications, where there is a clear transition from



Figure 3: Duplex Antenna Remoting Example – providing indoor wireless coverage

### What are the Key Performance Metrics for Antenna Remoting?

Since the conversion from electrical to optical and back happens for wide frequency ranges and diversified dynamic ranges, the link requirements should be properly defined. To ensure proper deployment and effectiveness of antenna remoting, it is important for signal transport designers to

these key parameters:

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Aviation Pros - December 13, 2023



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HOW EVERYONE CAN PULL TOGETHER  
TO MAKE MASSIVE CHANGES

NOMINATE TO

AIRPORTS

# Managing Cellular Connectivity Challenges During the Holiday Season

Meir Bartur  
Dec. 13, 2023





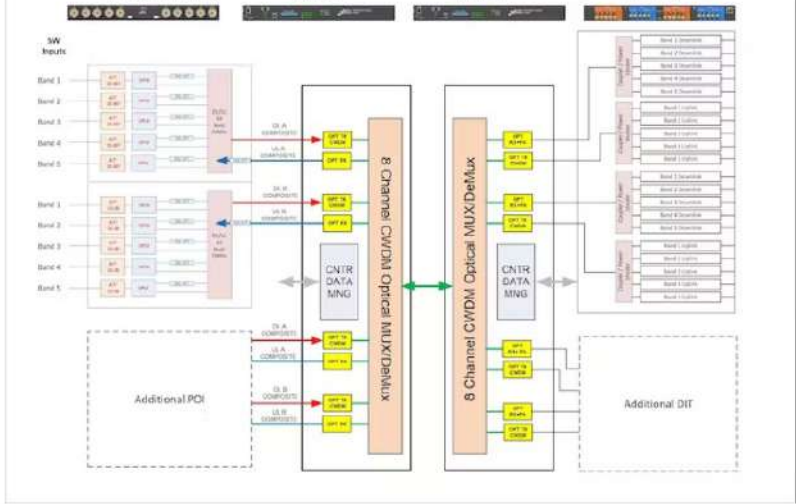



Figure 3



airport operators grapple with the higher stakes of supplying excellent cellular

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## Components in Electronics - October 3, 2023




The screenshot shows the CIE Components in Electronics website. The top navigation bar includes links for About, Registration, Media Info, Privacy Policy, Contact Us, and Client Login. The main header features the CIE logo and a search bar. Below the header, there are several promotional banners, including one for Renesas and another for Analog Devices. The main content area displays a news article titled "OPTICAL ZONU LAUNCHES ZONUCONNECT 3.0 BASE STATION TO DAS FIBRE OPTIC TRANSPORT SYSTEM". The article includes a sub-header, a date (4 weeks ago), and a list of tags (News, Optoelectronics, RF & Microwave, Wireless & Communications). The article text describes the ZONUConnect 3.0 system, its features, and its benefits. To the right of the article, there are two smaller promotional banners: one for Jauch Quartz Crystals in SMD and another for P-Duke Power AC/DC Power Supplies.

- **Minimal Rack Footprint:** The fibre transport process consists of two full MIMO sectors in a 3 U chassis that can support up to six bands per MIMO sector. The sizable bandwidth enables the POI (point of interface) at the BTS and the DAS interface tray to pre-combine all the bands onto a single RF path and minimizes the equipment needed at both sites.
- **Optical Compensation as Needed:** For instances where compensation is needed for higher optical loss, ZONUConnect 3.0 provides a stand-alone 1U rack-mounted Extender Tray at the DAS head end location.
- **Minimal Commissioning Time:** The simplicity of ZONUConnect 3.0 means that even the largest systems can be deployed and commissioned in less than a day.
- **Lower Power Consumption:** ZONUConnect 3.0 combines multiple bands with a minimized fibre count for maximum energy efficiency.

For more information on Optical Zonu and ZONUConnect 3.0, visit:

<https://www.opticalzonu.com/system-solutions/zonucconnect-universal-base-station-to-das-fiber-transport/>

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**Military+Aerospace  
Electronics**

Sept. 27, 2023 



"It is no secret that our weaponry and defense systems are becoming increasingly autonomous," Bartur continues. "As a result, signal transport to manage these systems

was released in 2020 there has been  
vices and partner nations. In terms  
erts says, "Cognitive EW is driving  
hat we field and how we think about

A futuristic fighter jet, possibly an F-35, is shown from a low-angle perspective, flying upwards through a sky filled with large, colorful clouds. A digital grid overlay, resembling a targeting or sensor system, is visible in the upper right portion of the image. The jet is dark and sleek, with its wings and canards clearly defined. The overall scene conveys a sense of advanced technology and aerial warfare.

The BAE Systems state-of-the-art Block 4 EW systems for F-35 Lightning II jet fighter-bombers will accelerate the delivery of advanced EW capabilities to warfighters by combining

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Electronic Products & Technology - September 23, 2023



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Electronics Wireless

OPTICAL ZONUConnect 3.0 next generation fiber optic transport system connects multi-sector base transceiver stations (BTS) and distributed antenna systems (DAS) for distances of 300 ft. to 16 miles. The carrier-grade system is now 'future-proof,' boasting hot-swappable individual band amplifiers in a compact design to simplify indoor wireless deployments and reduce costs. Product features modular trays that can remain in the rack while individual amplifiers are removed and replaced without shutting down the system. This new feature allows customers the ability to swap bands, easily upgrade their network to emerging frequency bands like C-band and CBRS as well as provide ease of maintenance in the case of a faulty module. Previously, if a single band amplifier failed to connect the BTS and DAS, the entire solution had to be sent for repair. Now, it's only a simple plugin at the DAS interface tray and the

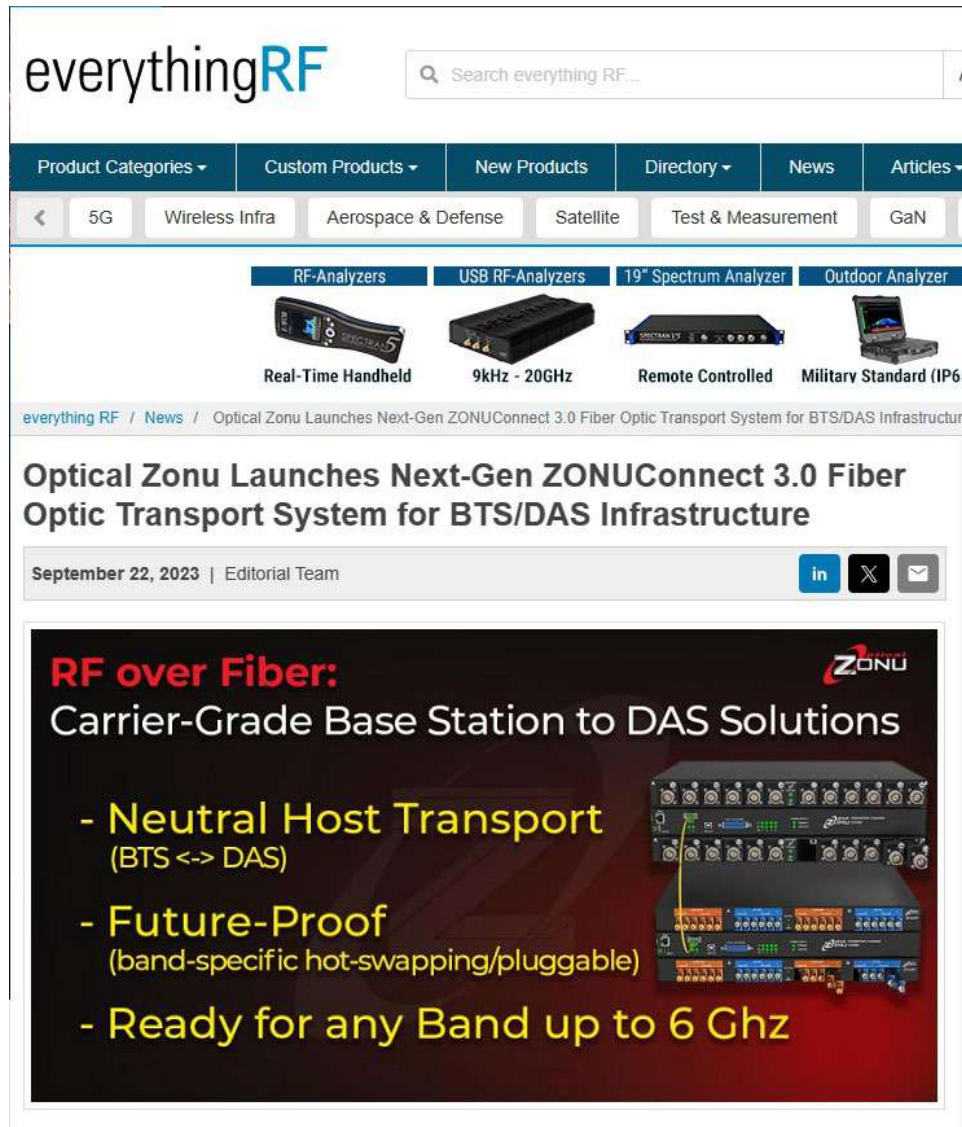


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everythingRF - September 22, 2023

everythingRF



The screenshot shows the everythingRF website with a search bar and navigation menu. The main article is titled "Optical Zonu Launches Next-Gen ZONUConnect 3.0 Fiber Optic Transport System for BTS/DAS Infrastructure". The article is dated September 22, 2023, and is written by the Editorial Team. The article features a large image of the ZONUConnect 3.0 system with the following text:

**RF over Fiber:**  
Carrier-Grade Base Station to DAS Solutions

- Neutral Host Transport (BTS <-> DAS)
- Future-Proof (band-specific hot-swapping/pluggable)
- Ready for any Band up to 6 Ghz

The image also shows a stack of ZONUConnect 3.0 units and a photo of a stadium at night with the ZONU logo.

ZONUConnect 3.0 means that even the most complex deployments can be completed in less than a day. The system combines multiple bands with a minimized



To support growing mobile carrier demand for low latency and high bandwidth BTS to DAS connection, Optical Zonu has hired Vinny (Hwoi Yong) Chung as a Wireless Carrier Sales Engineer responsible for building and managing US wireless carrier technical sales along with potential commercial, government and military customers. Vinny has over 25 years of experience specializing in the RF and wireless infrastructure industry in previous executive positions with KMW Communications and Ace Technologies Corp. He has a proven track record of consistently building strategic partnerships with major US wireless carriers that drive significant growth.

"Optical Zonu's reputation for being at the forefront of RFoF technology and their commitment to innovation and excellence makes it an ideal opportunity for furthering my career trajectory," said Chung. "I am honored, excited, and humbled to join Optical Zonu's amazing team of professionals and look forward to being part of the company's success and growth."

[Click here to learn more about ZONUConnect 3.0 fiber optic transport system.](#)

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Microwave Journal - September 19, 2023





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## Optical Zonu Launches Third-Gen. ZONUConnect Base Station to DAS Fiber-Optic Transport System

September 19, 2023 0 Comments

KEYWORDS: [BTS](#) [DAS](#) [OPTICAL ZONU](#) [RFOF](#) [ZONUCONNECT](#)

**Optical Zonu Corporation**, a provider of RF over fiber (RFOF) transport solutions, has announced the launch of ZONUConnect 3.0, the next generation of its popular fiber-optic transport system connecting multi-sector base transceiver stations (BTS) and distributed antenna systems (DAS) for distances of 300 ft. to 16 miles. The carrier-grade system is now “future-proof,” boasting hot-swappable individual band amplifiers in a compact design to simplify indoor wireless deployments and reduce costs.

ZONUConnect 3.0 features modular trays that can remain in the rack while individual amplifiers are removed and replaced without shutting down the system. This new feature allows customers the ability to swap bands, easily upgrade their network to emerging frequency bands like C-Band and CBRS as well as provide ease of maintenance in the case of a faulty module. Previously, if a single band amplifier failed to connect the BTS and DAS, the entire solution had to be sent for repair. Now, it's only a simple plugin at the DAS interface tray and the BTS point of interface (POI).

“The new ZONUConnect 3.0 not only addresses common wireless carrier challenges relating to BTS and DAS connectivity, but also simplifies the deployment process and reduces the overall costs associated with establishing, scaling, and maintaining DAS networks,” said Meir Bartur, co-founder and CEO of Optical Zonu. “These capabilities are essential as wireless carriers in the US continue to grow their services and cater to the increasing demands of their subscribers, especially at major venues such as malls, stadiums, corporate offices and high-rise buildings.”

Additional benefits of the modular ZONUConnect 3.0 solution include:

- **Support up to six bands per MWU sector:** The sizable bandwidth enables the POI at the BTS and the DAS interface tray to pre-combine all the bands onto a single RF path and minimizes the equipment needed at both sites.
- **Optical Compensation as Needed:** For instances where compensation is needed for higher optical loss, ZONUConnect 3.0 provides a stand-alone 1U rack-mounted Extender Tray at the DAS head end location.
- **Minimal Commissioning Time:** The simplicity of ZONUConnect 3.0 means that even the largest systems can be deployed and commissioned in less than a day.
- **Lower Power Consumption:** ZONUConnect 3.0 combines multiple bands with a minimized fiber count for maximum energy efficiency.

To support growing mobile carrier demand for low latency and high bandwidth BTS to DAS connection, Optical Zonu has hired Vinny (Hwoi Yong) Chung as a wireless carrier sales engineer responsible for building and managing US wireless carrier technical sales along with potential commercial, government and military customers. Vinny has over 25 years of experience specializing in the RF and wireless infrastructure industry in previous executive positions with KMW Communications and Ace Technologies Corp. He has a proven track record of consistently building strategic partnerships with major US wireless carriers that drive significant growth.

“Optical Zonu's reputation for being at the forefront of RFOF technology and their commitment to innovation and excellence makes it an ideal opportunity for furthering my career trajectory,” said Chung. “I am honored, excited, and humbled to join Optical Zonu's amazing team of professionals and look forward to being part of the company's success

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The Fast Mode - September 15, 2023

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Optical Zonu Intros ZONUConnect 3.0 Base Station to Deliver Fiber to DAS

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Image Credit: Evgeniy An/Bigstockphoto.com

Optical Zonu Corporation, a leading provider of radio frequency over fiber (RfOfF) transport solutions, has announced the launch of ZONUConnect 3.0, the next generation of its popular fiber optic transport system

Lower Power Consumption: ZONUConnect 3.0 combines multiple bands with a minimized fiber count for maximum energy efficiency.

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nsceiver stations (BTS)

distributed antenna systems (DAS) for distances of

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Aerospace &amp; Defense Technology - September 15, 2023

# AEROSPACE & DEFENSE™ TECHNOLOGY

## Optoelectronic Analog Signal Transmission Takes Center Stage Amidst Aerospace and Defense Innovation

It is hard to imagine an industry more reliant on seamless, resilient, and secure communication than aerospace and defense (A&D). Communication and electromagnetic signal processing are at the core of advanced systems, which is why the trend towards higher frequencies (and millimeter waves) makes optoelectronic signal transmission a critical topic in this sector as technology advances at a rapid pace and demands better performance.

A&D communication networks use a mix of digital and analog transmission, with emphasis on the former, but given the industry's proclivity towards lower latency and higher bandwidth applications, analog transmission will play an even larger role in the future. Passive and active electro-optic sensing (e.g., radar, radio telescopes, and other listening devices) requires high fidelity signal

transport for "remote" processing. It brings transport of radio frequency signals over fiber (RFoF) to the forefront, which is an analog technique of converting radio frequency (RF) into light waves for secure, resilient, long-distance data/signal transmission.

### Data Intensive and Autonomous Future for Aerospace and Defense

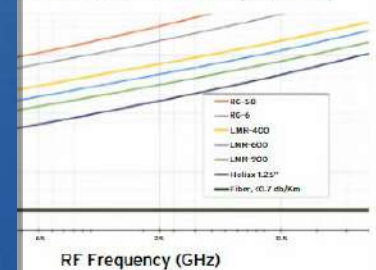
A&D domains rely increasingly on communications such as control signals for unmanned vessels, surveillance drones, and tactical data from battlefield sensors. In 2021, the Pentagon received \$7.5 billion to fund unmanned systems across the U.S. Air Force, Army and Navy. The Department of Defense (DoD) has also recently expressed interest in ramping up its use of AI in defense technologies.

All these applications are data-intensive, always requiring low latency and

high bandwidth communication to operate successfully. Most of the signals are transported over-the-air but there is a need for transport between the processing equipment (e.g., at a bunker) and the outside antenna. The challenge with high frequency technologies required to meet current and emerging needs is the high attenuation over cable or waveguide medium, which makes long distance transport impractical. As does its heightened sensitivity to natural and man-made obstructions.

Presently, the Ku band (12.5-18 GHz) is one of the most common RF bands used by the A&D for satellite communication (i.e., common data link), radar systems and broadcast services. But the Ka-band (26.5-40 GHz) is emerging as a popular choice in military commu-

Figure 1: Loss in Coaxial Cable vs. Fiber (to 40 GHz)



RF is ideal to transmit conversion of RF into optical signals traveling long distances as opposed to coaxial cable.

Traditional RF signal degradation is subjected to extreme temperature or radiation. RFoF is inher-

ently immune to such adverse environments, ensuring continued communication even in the most challenging circumstances.

For example, many of the Navy's unmanned surface vessels (USV) use waveguides to transport Ku-Band CDL communications payloads between radome mounted high above deck of a ship and equipment rooms situated within the hulls of ships. However, rough ocean environments and corrosion from saltwater causes significant waveguide interference because they are fragile and must be kept extremely clean and dry. Using optical fiber cables as a replacement to transmit these payloads is more suitable for these conditions. The negative impact of communication downtime on unmanned vessels only becomes greater as the fleet grows in scale.

Beyond physical damage or the environment, conventional RF systems are also susceptible to interference from electromagnetic pulses (EMPs), which

can disrupt communication and compromise mission-critical data. RFoF technology's transmission of optical signals through fiber provides inherent immunity to electromagnetic interference, safeguarding vital communication links from electronic warfare threats and enabling uninterrupted information exchange.

### RFoF: Ideal to Support Communication in Harsh Environments

RFoF technology exhibits high resilience in the face of physical damage or environmental hazards, which is a standard expectation for the majority of

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## WHY RFOF MEANS WIRED COMMUNICATION STILL HAS A PLACE IN MILITARY APPLICATIONS

As technology such as AI, drones, and cyber advances, militaries around the world are racing to implement it into their arsenal. However, it's important not to lose sight of the fundamentals of how a military force operate – through communication. is so ubiquitous today, that it's hard to see how radical this new approach was.

By Kristian  
McCann, Editor,  
Electronic Specifier

Communication is the backbone of the military. Yet often the vehicles of communication are subject to incredibly difficult environments that put it at risk. Military communication is often governed by protocol and procedure, like the US Department of Defence's Common Data Link – a secure communications protocol for transporting signals intelligence and imagery – but even in this, the method of transmission is less strictly governed. Therefore, antenna and wireless wave technology are still widely used. Yet large issues exist within these modes, which can drastically affect operational efficiency. But can anything be done to increase the integrity of military communications?

"As electronic warfare becomes a bigger concern in the military, fibre will be used more frequently beyond traditional

antenna use cases because of its immunity to electromagnetic interference, low attenuation, and ease of deployment," says Meir Bartur, Co-Founder and CEO of Optical Zonu.

The fibre Bartur is referring to is Radio Frequency over Fibre (RFOF). RFOF is an analog optoelectronic transmission technology where radio frequency is converted into light waves for transport and converted back again to original native radio frequency format at its destination. It is an ideal technology to transport high frequencies, which are becoming necessary for all data-intensive industries that require more bandwidth and low-latency.

This is preferential for the military in circumstances where continuous communication is key as traditional

# DESIGN

constructed with protection layers, and stretch elimination. Fibre is also more resilient to environmental factors than coaxial cables, an instrument of communication used by the military for things like systems and command and control due to their inherent physical and properties. They are immune to RFI, and the light signals in fibre experience significantly less attenuation (signal strength), less than 0.5dB per km which is orders of magnitude better than coaxial cables. Fibre can also support higher bandwidth and data rates since frequency is so high that it can carry more information than electrical signals, leading to greater data capacity.

Despite its promises and improvements, RFOF still suffers from some problems. "As an element for cable/waveguide, RFOF is more intensive as it often requires more resources for both the RF and optical elements, which can in some cases be problematic," says Bartur. "The inherently large figure of the RFOF physical transport, the conversion of RF to light (via direct modulation laser or external modulator) and back to RF is compensated by mission-specific electronics that condition the signal via multiple electronic stages. Additionally, the shooting and maintenance of RFOF systems can be challenging due to the technology's hybrid nature."

Yet despite the drawbacks, the applications show how cabled communication still has a place in the military alongside, and even over, wireless solutions, and Bartur believes its place will grow. "The military is gravitating towards higher frequency ranges for communication, like mmWave, that are characterised by high throughput and low latency but are also easily obstructed by man-made and natural elements. This makes traditional signal transmission, such as coaxial cables and waveguides, increasingly cumbersome and less efficient."

susceptible to any mechanical stress like shock or vibration. The waveguide joints are fragile and must be kept extremely clean and dry. The slightest amount of moisture or the smallest contamination of dirt or salt degrades the transmission of waveforms," explains Bartur. "In order to keep moisture out, waveguides are usually filled with dried air or purified nitrogen, but any corrosion or oxidation of the waveguide inner metal surface will degrade RF performance. However, even with this precaution in place, waveguides are too unreliable for the critical communication requirements of the modern military."

Fibre optics on the other hand is so thin that it's flexible. Fibre cables are

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## Uni tackles skills shortage

Sheffield University to lead government programme to raise awareness of and promote careers in semiconductor industry

STEVE BUSH

The University of Sheffield is leading a government-funded project to address the semiconductor skills shortage in the UK with Devon-based Ray Photonics and Phlux Technology of Sheffield by improving the knowledge of semiconductor of the general public, and particularly of pre-higher education students.

"The project is called ASISST – addressing shortages in semiconductor skills training – and will see the partners producing accessible, relevant semiconductor training courses to meet the specific requirements of employers in the semiconductor sector in order to increase the flow of talented people into the industry," said Phlux. "Semiconductors have been identified as one of the five technologies of tomorrow by the UK government. They are critical to the UK's economic and national



Ray Photonics' automatic wire bonder

security and to the strategic advantage we will secure on the global stage."

Phlux links the shortage of skilled semiconductor professionals to the shortage of students choosing STEM (science, engineering, technology and mathematics) careers, and further to an absence of the dedicated teaching resources and facilities for students to steer them towards the STEM subjects – as well as a lack of awareness of semiconductor technology.



"This project is in complete alignment with the recent UK National Semiconductor Strategy,

## MILITARY COMMS

# RFoF reinforces military communications

The stakes have never been higher for reliable and efficient communications for military use, says Meir Bartur

In an era when technological advancements such as automation are transforming every aspect of military operations, reliable and efficient communications have become paramount. When the Pentagon received \$1.5bn in 2021 to fund unmanned systems across the US Air Force, Army and Navy, it created a higher expectation and standard for quality signal transmission across any and all air waves such as military radar, cellular and satellite communications, GPS and GNSS.

Higher radio frequency (RF) signal transmissions such as mmWave are required to transmit low latency and high bandwidth communications necessary to operate unmanned vessels. Even momentary delays at an important moment could spell disaster. Unfortunately, those higher frequencies also introduce more attenuation and are easily obstructed by natural and man-made obstacles when compared to mid or lower frequency bands. As military vessels and equipment become increasingly automated, the significance of analogue signal transport technologies such as RF-over-fibre (RFoF) becomes critical to ensure seamless, secure and real-time communication within the military landscape.

### How does RFoF work?

RFoF technology is an analogue signal transmission technique that converts RF into optical signals and back again to RF at its destination. RFoF is gaining more traction in military applications because of its ability to provide extended range of these higher frequency bands, more bandwidth, and significantly more resilient and secure communication compared to conventional RF systems. With automated military vessels and equipment operating over vast distances, the demand for reliable and high



Analogue signal transport technologies such as RFoF deliver seamless, secure and real-time communication between defence positions.

bandwidth communications has never been greater. RFoF offers virtually unlimited bandwidth capabilities and eliminates signal loss over long distances, ensuring seamless data exchange between automated assets and command centres.

### Environmental key for unmanned vessels

RFoF is also resilient to electronic warfare. RFoF is immune to EMI, which disrupts communication channels and jeopardises the success of critical operations. This immunity enhances the reliability and security of communications, even in the presence of electronic countermeasures and electronic warfare threats.

Some of the biggest interference challenges are from so-called harsh conditions common in everyday military environments where autonomous vessels are expected to operate. One example is the US Navy's unmanned surface vessels. The navy drone boats use waveguides to transport Ka-Band common data link (CDL) communication payloads between radomes mounted high above the decks of ships and equipment rooms situated within the hulls of ships. CDL is a secure communications protocol for transporting signals intelligence and imagery.

The problem with waveguides is they are rigid and RF performance is highly susceptible to any mechanical stress

such as shock or vibration. They are also fragile and must be kept extremely clean and dry, a challenging task when deployed at sea or on the ocean for weeks at a time. The slightest moisture or the smallest contamination of dirt or salt degrades the transmission of waveforms and reducing RF performance. In order to keep moisture out, waveguides are usually filled with dried air or purified nitrogen, but any corrosion or oxidation of the waveguide inner metal surface will degrade performance. In one case, water entered the hull and, even with the nitrogen, disrupted the RF signal. In this case, RFoF antenna remoting was used as a replacement for the waveguide. It was resilient to the harsh environmental condition, but reported as being more flexible and easy to install.

In the age of automation, military communications must keep pace with technological advances to ensure efficient and secure operations. RFoF technology has emerged as an opportunistic technology to provide superior bandwidth, extended range, immunity to EMI and other harsh conditions.

As autonomous vessels and weapons continue to evolve in response to emerging threats and challenges, RFoF can help ensure unmanned military assets are not a serious liability. □

### About the author

Meir Bartur is co-founder and CEO of Optical Zonu, which designs and manufactures fibre optic components for analogue and digital transmission, business class services and coarse wavelength division multiplexing

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## Optoelectronic Analog Signal Transmission Takes Center Stage Amidst Aerospace and Defense Innovation

September 1, 2023



Optoelectronic Analog Signal Transmissi

It is hard to imagine an industry m aerospace and defense (A&D). Con of advanced systems, which is why makes optoelectronic signal transr rapid pace and demands better per

A&D communication networks use former, but given the industry's pr analog transmission will play an ev sensing (e.g., radar, radio telescope transport for "remote" processing. the forefront, which is an analog te secure, resilient, long-distance dat

All these applications are data-intensive, always requiring low latency and high bandwidth communication to operate successfully. Most of the signals are transported over-the-air but there is a need for transport between the processing equipment (e.g., at a bunker) and the outside antenna. The challenge with high frequency technologies required to meet current and emerging needs is the high attenuation over cable or waveguide medium, which makes long distance transport impractical. As does its heightened sensitivity to natural and man-made obstructions.

### RF Attenuation - Coaxial Cable vs. Fiber (to 40 Ghz)

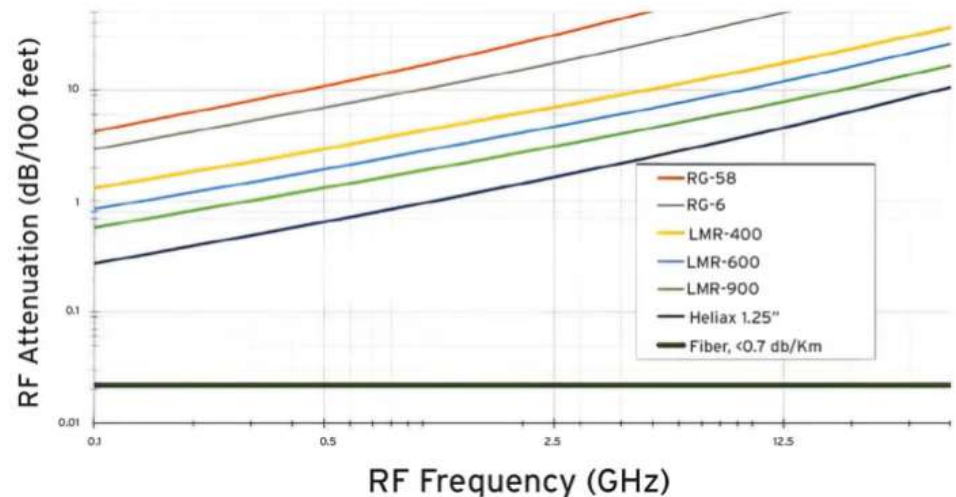


Figure 1. The chart shows why it is ideal to transmit conversion of RF into optical sigals traveling long distances over fiber optic cables as opposed to coaxial cable.

Presently, the Ku-band (12.5-18 GHz) is one of the most common RF bands used by A&D for satellite communication, remote sensing, military communication (i.e., common data link), radar systems and broadcast services. But the Ka-band (26.5-40 GHz) is emerging as a popular choice in military communication systems due to its higher data transfer rates and increased capacity. RFoF technology offers a distinct advantage here by converting RF into optical signals traveling long distances over fiber optic cable, without attenuation and signal degradation. This is preferable to transmitting over coaxial cable, which is illustrated in figure 1.

Furthermore, RFoF systems can support higher bandwidths, accommodating the ever-increasing data demands of modern military operations. With the proliferation of high-resolution sensors, sophisticated radars, and advanced communication equipment, the need for bandwidth scalability has become paramount. RFoF links ability to support higher data rates ensures that the A&D industries can keep up with evolving technological demands. The fiber media is not bandwidth

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**EEJournal - August 21, 2023****industry news**

August 21, 2023

**Optical Zonu Expands RFoF Offering for 5G Direct-to-Cellular Satellite Services****Company Taps Former AST SpaceMobile Gateway Engineer Luis Tellez-Giron to Support Growing Market**

Los Angeles, CA – August 15, 2023 – [Optical Zonu Corporation](#), a leading provider of radio frequency over fiber (RFoF) transport solutions, today announced its expanded RFoF offering to improve connectivity for 5G direct-to-cellular satellite services with the hiring of former AST SpaceMobile Gateway Engineer Luis Tellez-Giron as an Aerospace and Defense Sales Engineer.

Luis Tellez-Giron boasts over 30 years of experience in satellite communications sales and engineering roles. With AST SpaceMobile, Tellez-Giron analyzed waveform transport optimization for the Gateway equipment in ST Engineering, which are required for 5G non-terrestrial network (NTN) with higher bandwidth requirements. He was also tasked with analyzing the Digital Intermediate Frequency Interoperability (DIFI) interfaces to meet these higher bandwidth needs. In this capacity, he was introduced to in-production Optical Zonu equipment and observed a full-scale deployment.

"We have seen a surge of interest in our solutions that address this market need for connecting 5G nodes to the RF satellite equipment," said Meir Bartur, co-founder and CEO of Optical Zonu. "Luis' extensive experience on the cutting edge of 5G satellite communications makes him perfectly suited to lead our efforts in helping more LEO satellite operators achieve their goals of accessible direct-to-phone satellite service around the world."



Recent technological advancements in low earth orbit (LEO) satellite constellations enable operators to establish Internet and direct-to-phone satellite services, which are critical for providing connectivity to remote United States locations and many countries around the globe that lack sufficient wireless infrastructure. However, these innovative networks require Satellite Gateways to beam considerable bandwidth to/from LEO constellations and maintain low-latency high quality connection between the antenna to 5G radio access nodes. RFoF has proven to be a cost-effective and resilient solution to address the need to provide high bandwidth, low-latency and resilient RF signal transport between these points.

"It became clear very quickly that by joining Optical Zonu I would be part of a team offering critical solutions for the satellite communications market, particularly in supporting the emerging direct-to-cellular 4G/5G services," said Tellez-Giron. "As LEO satellite technology continues to mature, it holds great promise for transforming global communication that will require RFoF solutions to support intensive low-latency and high bandwidth requirements."

For more information on Optical Zonu and its RFoF services for satellite communication, visit <https://www.opticalzonu.com/system-solutions/l-s-band-satcom-fiber-transport/>.

**About Optical Zonu Corporation**

Optical Zonu Corporation (OZC) is a leading provider of radio frequency over fiber (RFoF) transport solutions for the wireless and defense and aerospace industries. OZC is the only company fully committed to custom solutions for every deployment and offers easy centralized management and patented fiber fault detection. We offer a wide range of turnkey, modular, and OEM form factors that address satellite antenna remoting RF signal transport, satellite phone and GPS distribution into buildings, tunnels, etc., N+1 ground station redundancy architectures, and switched delay lines for phased array antennas and radar calibration. OZC maintains important strategic and global relationships across industries it services and cooperates with major vendors and suppliers of optical, communication and electronic devices, to enable rapid production of cutting-edge solutions. For more information, visit [www.opticalzonu.com](http://www.opticalzonu.com).

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## Optical Zonu's RFoF solution addresses 5G direct-to-cellular satellite services

The company taps Luis Tellez-Giron to lead new 4G/5G satellite opportunities.

Sean Buckley

Aug. 17, 2023









Optical Zonu, a provider of radio frequency over fiber (RFoF) transport solutions, has enhanced its RFoF offering to improve connectivity for 5G direct-to-cellular satellite services by naming former AST SpaceMobile Gateway Engineer Luis Tellez-Giron as an Aerospace and Defense Sales Engineer.

Tellez-Giron comes to the new role with 30 years of satellite communications sales and engineering experience. During his tenure at AST SpaceMobile, Tellez-Giron analyzed

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New technological advancements in low earth orbit (LEO) satellite constellations enable operators to establish Internet and direct-to-phone satellite services, which are critical for providing connectivity to remote United States locations and many countries around the globe that lack sufficient wireless infrastructure. However, these innovative networks require Satellite Gateways to beam considerable bandwidth to/from LEO constellations and maintain the low-latency quality connection between the antenna to 5G radio access nodes.

According to Optical Zonu, RFoF has become a cost-effective and resilient solution to address the need to provide high bandwidth, low latency and resilient RF signal transport between these points.

"It became clear very quickly that by joining Optical Zonu, I would be part of a team offering critical solutions for the satellite communications market, particularly in supporting the emerging direct-to-cellular 4G/5G services," said Tellez-Giron. "As LEO satellite technology continues to mature, it holds great promise for transforming global communication that will require RFoF solutions to support intensive low-latency and high bandwidth requirements."

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## Optical Zonu names a new Aerospace + Defense Sales Engineer

AUGUST 16, 2023

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**Optical Zonu Corporation** has expanded the firm's RFoF offering to improve connectivity for 5G direct-to-cellular satellite services with the hiring of former AST SpaceMobile Gateway Engineer **Luis Tellez-Giron** as an Aerospace and Defense Sales Engineer.

Luis Tellez-Giron possesses more than 30 years of experience in satellite communications sales and engineering roles. With AST SpaceMobile, Tellez-Giron analyzed waveform transport optimization for the Gateway equipment in ST Engineering, which are required for 5G non-terrestrial network (NTN) with higher bandwidth requirements. He was also tasked



founder and CEO, Optical Zonu.

*"It became clear very quickly that by joining Optical Zonu I would be part of a team offering critical solutions for the satellite communications market, particularly in supporting the emerging direct-to-cellular 4G/5G services. As LEO satellite technology continues to mature, it holds great promise for transforming global communication that will require RFoF solutions to support intensive low-latency and high bandwidth requirements. Additional capabilities will be developed to a Critical Design Review maturity, setting the stage for a rapid transition to an in-space flight demonstration."* — **Luis Tellez-Giron**, Optical Zonu

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# Optical Zonu Expands RFoF Offering for 5G Direct-to-Cellular Satellite Services

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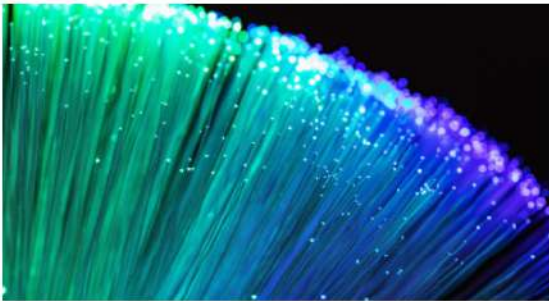


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Meir Bartur, co-founder and CEO of Optical Zonu

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Laser Focus World - August 16, 2023



## Meir Bartur, Optical Zonu

SALLY COLE JOHNSON, SENIOR TECHNICAL EDITOR



Meir Bartur, cofounder and CEO of Optical Zonu.

**T**he Faces in Photonics series shines a light on scientists, researchers, educators, and business leaders from all over the world whose work is reshaping the optics and photonics industry.

Here, we feature Meir Bartur, cofounder and CEO of Optical Zonu, a provider of radio-frequency-over-fiber (RFOF) transport solutions.

**Laser Focus World: What inspired your work with RFOF?**

**Meir Bartur:** My journey into RFOF technology was inspired by a few significant market changes in the telecommunication industry that unfolded in the early 2000s. Originally, our business was in fiber-optic communication on the digital side during the time when IEEE and FSAN standardization had started. But we realized that these standardization efforts were inadvertently hindering the growth of smaller innovative companies, like us, and favored larger industry players by stifling innovation and unique capabilities.

Our frustration was compounded by other challenges like the telecom freeze of 2002 to 2003 and the growing influence of the Chinese market on pricing and technology. We recognized the need to diversify and explore new avenues to stay alive. When we relaunched our company in 2003, we sold our digital communications patents and pivoted to analog RFOF.

Since it was a niche application, we weren't bound by standardization efforts

and the market demand was steadily growing—although not at an accelerated pace that would invite competition and bring down pricing. Our motivation to venture into RFOF technology stemmed from the market trends we observed, the need for adaptability within an evolving industry, and a desire to provide innovative solutions to untapped market spaces.

**LFW: Main areas of research/work interest?**

**Bartur:** I'm fascinated by the practical application of scientific advancements in turning everyday commodities into unique and innovative products. In my work, I leverage principles from physics and engineering to adapt commercial components for high-end purposes. One notable example of this is our micro plug-gable optical time-domain reflectometer (OTDR) that can plug into devices and find the fiber fault anywhere on the network within a few meters. This happened because we collaborated as a team to solve an industry problem. Driving positive change is what truly motivates me.

**LFW: Anything exciting going on within the military realm in terms of photonics?**

**Bartur:** There are several exciting photonic developments that apply to the military. One evolving area is encrypted communication, which is essential for future battlefield operations as weapons and vehicles become more autonomous.



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to us, as this technology becomes more available, because we can provide a higher-end fiber solution to use it.

There is also growing U.S. recognition to reshore domestic fiber-optic component manufacturing to reduce our dependence on other nations.

**How do your technologies help improve and operational efficiency of operations?**

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Recently, the CHIPS Act was introduced and represents a significant commitment by the U.S. government to support and incentivize domestic high-tech R&D and manufacturing, including within the field of photonics. It seeks to foster innovation, strengthen national capabilities, and ensure we remain competitive. Since Optical Zonu's solutions are manufactured and tested at our California facility, we're well positioned for this momentum.

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**LFW: Favorite thing about your job/work?**

**Bartur:** I enjoy the opportunity to interact with individuals from diverse educational backgrounds and industries. And I truly cherish applying my creativity across various disciplines to resolve critical communications challenges. It's also incredibly fulfilling to witness the growth of applications rooted in the foundation we established years ago, particularly when it comes to digitally managing analog RFOF links in large systems. An understated challenge of building a business around manufacturing is anticipating what will be needed years from now and getting it right. ✨

Tell us what you think about this article. Send an e-mail to [LFWFeedback@indeavor12b.com](mailto:LFWFeedback@indeavor12b.com).

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and interference when transmitting mission-critical communications over long distances and within harsh environments where RF signals may struggle to penetrate.

The defense and aerospace sectors rely on RFOF technology for various applications, including antenna-remoting on military vessels such as aircraft and ships, establishing secure satellite phone connections, providing Wi-Fi coverage for

triguing photonic developments right now include advancements in higher-frequency direct-modulation lasers and a shift toward domestic manufacturing in the U.S. The improvement and development of direct-modulation lasers for higher frequencies holds significant importance for critical applications, particularly for military operations and defense, because of cost and compactness advantages. This is particularly exciting

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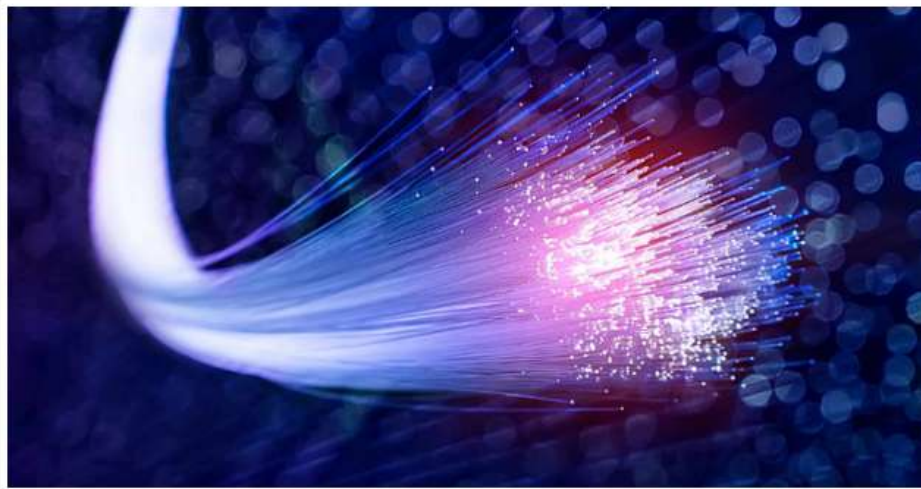
## Optical Zonu Bolsters 5G Direct-to-Cellular Satellite Services with Enhanced RF over Fiber Solutions

August 17, 2023 | Editorial Team

in

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Optical Zonu, a leading provider of radio frequency over fiber (RFOF) transport solutions, has expanded its RFOF offering to improve connectivity for 5G direct-to-cellular satellite services with the hiring of former AST SpaceMobile Gateway Engineer Luis Tellez-Giron as an Aerospace and Defense Sales Engineer.

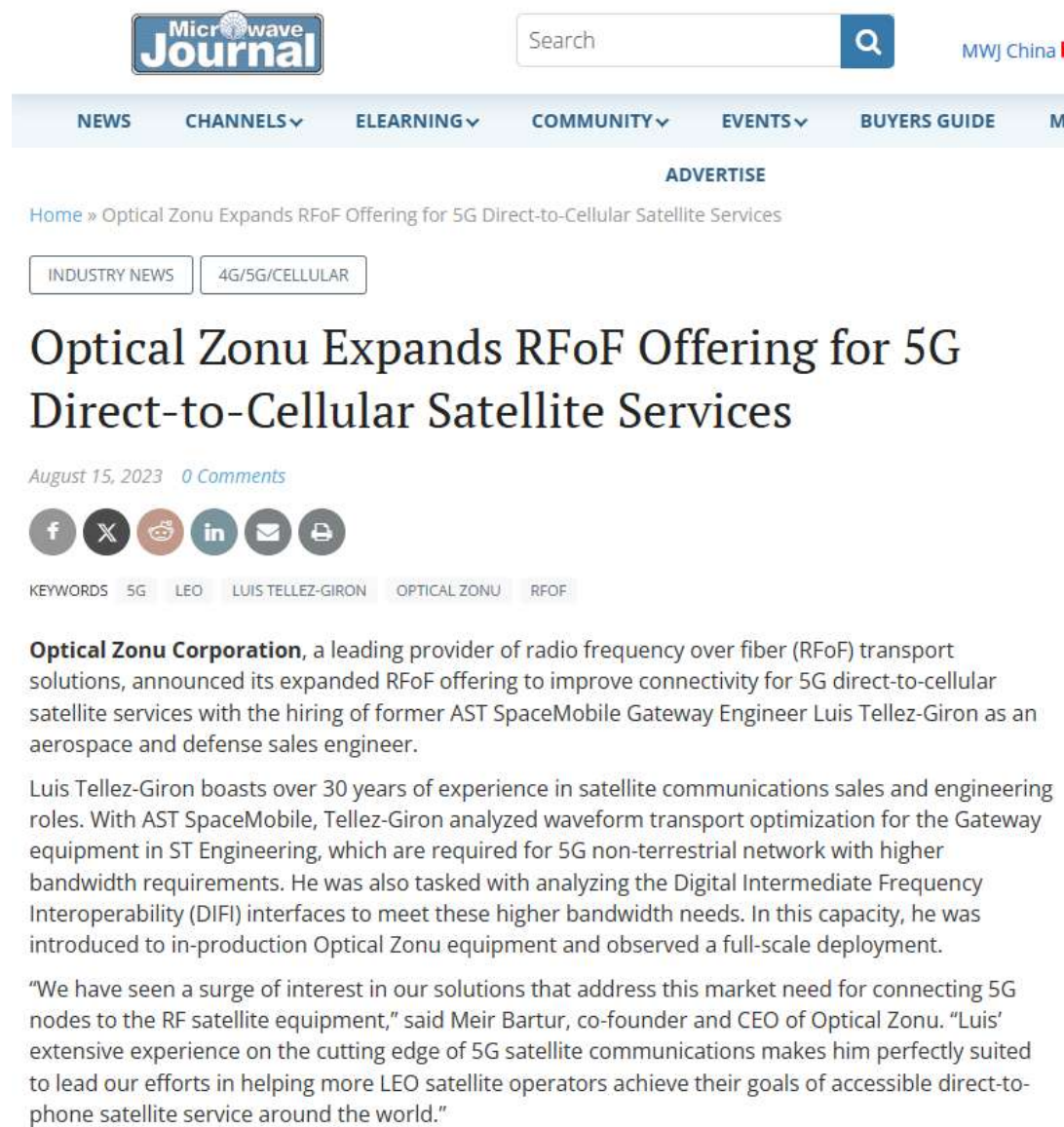
Luis Tellez-Giron has over 30 years of experience in satellite communications sales and engineering roles. With AST SpaceMobile, Tellez-Giron analyzed waveform transport optimization for the Gateway equipment in ST Engineering, which is required for the 5G non-terrestrial network (NTN) with higher bandwidth requirements. He was also tasked with analyzing the Digital Intermediate Frequency Interoperability (DIFI) interfaces to meet these higher bandwidth needs. In this capacity, he was introduced to in-production Optical Zonu equipment and observed a full-scale deployment.

emerging direct-to-cellular 4G/5G services," said Tellez-Giron. "As LEO satellite technology continues to mature, it holds great promise for transforming global communication, which will require RFOF solutions to support intensive low-latency and high bandwidth requirements."

[Click here to see RF Over Fiber Modules from Optical Zonu.](#)

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Microwave Journal - August 15, 2023



The screenshot shows the Microwave Journal website interface. At the top, there's a search bar and navigation links for NEWS, CHANNELS, EARNING, COMMUNITY, EVENTS, and BUYERS GUIDE. Below the navigation bar, there's an "ADVERTISE" section. The main article is titled "Optical Zonu Expands RFoF Offering for 5G Direct-to-Cellular Satellite Services" and is dated August 15, 2023. The article text discusses Optical Zonu Corporation's expansion of its RFoF (radio frequency over fiber) transport solutions for 5G direct-to-cellular satellite services. It mentions the hiring of Luis Tellez-Giron, a former AST SpaceMobile Gateway Engineer, as an aerospace and defense sales engineer. The article highlights Luis Tellez-Giron's 30 years of experience in satellite communications sales and engineering roles, particularly with AST SpaceMobile, where he analyzed waveform transport optimization for the Gateway equipment in ST Engineering, which are required for 5G non-terrestrial network with higher bandwidth requirements. It also mentions his role in analyzing the Digital Intermediate Frequency Interoperability (DIFI) interfaces to meet these higher bandwidth needs. The article concludes with a quote from Meir Bartur, co-founder and CEO of Optical Zonu, stating that Luis' extensive experience on the cutting edge of 5G satellite communications makes him perfectly suited to lead their efforts in helping more LEO satellite operators achieve their goals of accessible direct-to-phone satellite service around the world.

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Channel Drive - July 24, 2023



# Optical Zonu Picks Former EMCORE Resellers to Address Market Gap

BY CHANNELDRIVE BUREAU JULY 24, 2023 11:00 IST  
 Channel Trends Distribution Enterprise Networking News Telecoms



**Optical Zonu Corporation**, a provider of radio frequency over fiber (RFOF) transport solutions, has partnered with several former EMCORE resellers including UR Group, ProTEQ Solutions, and RF Electronic Sales.

The new distribution and sales partnerships expand Optical Zonu's presence in the Northeastern and Mid-Atlantic United States and in Germany, Japan, and Italy.

provider of advanced communications systems, subsystems and end-to-end solutions utilizing sensor, IP networking, wireless, fiber-optic and satellite technologies. ProTEQ Solutions serves customers throughout New England and the Mid-Atlantic region, and RF Electronic Sales offers a wide range of RF, microwave and lightwave products to the NY metro area and beyond.

"Optical Zonu was the ideal partner for transitioning potential customers from EMCORE products," said Tony Bocchimuzzo, technical sales representative at RF Electronic Sales. "They were able to find comparable products almost immediately and understood the nuances of the product environment to ensure accuracy and minimal downtime. We provide exceptional customer service and we hold our OEM partners to the same standard."

The EMCORE Customer Relief Program is a turnkey offering that provides 24/7 technical service support, onsite technician training, onsite installation and support as needed, and is capable of identifying the comparable and compatible Optical Zonu products in less than two hours.

The replacement equipment from Optical Zonu can be equipped with its patented small pluggable transceiver that can be inserted in any device and is capable of locating fiber faults within a few meters for reduced detection time.

"I had a 20-year relationship with EMCORE optical solutions until their broadband division closure left a void in providing my customers with RF Over Fiber and Optical Delay Line solutions," said Steve Moloy, senior sales engineer at ProTEQ. "We are fortunate to have quickly pivoted to Optical Zonu, which provides another best-in-class manufacturer of these solutions to complement our existing RF/MMW/Digital and ATE system test solutions. Optical Zonu is a great addition to our comprehensive line of tier-1 cutting edge technology solutions."

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### Optical Zonu partners with former EMCORE resellers to address market gap

Jul 24, 2023 | Network Technology, Channel News, Logistics | Comments (0)

Optical Zonu Corporation, the provider of radio frequency over fiber (RFOF) transport solutions, has partnered with several former EMCORE resellers including UR Group, ProTEQ Solutions, and RF Electronic Sales. The new distribution and sales partnerships expand Optical Zonu's presence in the Northeastern and Mid-Atlantic United States and in Germany, Japan, and Italy.

After EMCORE dissolved its optoelectronics business in late April, resellers were faced with an influx of customer inquiries and nowhere to turn. Optical Zonu's EMCORE Customer Relief Program, which offers RFOF infrastructure replacement and ongoing technical support for former EMCORE aerospace and defense customers, provided a natural match for former EMCORE resellers to transition to a new supplier and continue business without any interruption.



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logy enablement companies and provider of solutions utilizing sensor, IP networking, wireless, customers throughout New England and the Mid- microwave and lightwave products to the NY

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"I had a 20-year relationship with EMCORE optical solutions until their broadband division closure left a void in providing my customers with RF Over Fiber and Optical Delay Line solutions," said Steve Moloy, senior sales engineer at ProTEQ. "We are fortunate to have quickly pivoted to Optical Zonu, which provides another best-in-class manufacturer of these solutions to complement our existing RF/MMW/Digital and ATE system test solutions. Optical Zonu is a great addition to our comprehensive line of tier-1 cutting edge technology solutions."

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Channel Vision Magazine - July 21, 2023






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## Optical Zonu Partners with Ex-EMCORE Resellers to Address Market Gap

By **Bruce Christian** - July 21, 2023



**Optical Zonu Corporation**, a provider of radio frequency over fiber (RToF) transport solutions, has partnered with several former EMCORE resellers including [UR Group](#), [ProTEQ Solutions](#), and [RF Electronic Sales](#). The distribution and sales partnerships expand Optical Zonu's presence in the Northeastern and Mid-Atlantic United States as well as in Germany, Italy and Japan.

After EMCORE dissolved its optoelectronics business in late April, resellers were faced with an influx of customer inquiries and nowhere to turn. Optical Zonu's EMCORE Customer Relief Program, which offers RToF infrastructure replacement and ongoing technical support for former EMCORE aerospace and defense customers, provided a match for former EMCORE resellers to transition to a new supplier and continue business without any interruption.

EMCORE dissolved its optoelectronics business in late April, resellers were faced with an influx of customer inquiries and nowhere to turn. Optical Zonu's EMCORE Customer Relief Program, which offers RToF infrastructure replacement and ongoing technical support for former EMCORE aerospace and defense customers, provided a match for former EMCORE resellers to transition to a new supplier and continue business without any interruption.

The replacement equipment from Optical Zonu can be equipped with its small pluggable transceiver that can be inserted in any device and is capable of locating fiber faults within a few meters for reduced detection time.

For Optical Zonu's complete EMCORE product replacement guide and more information about the EMCORE Customer Relief Program visit, <https://www.opticalzonu.com/2023/06/optical-zonu-launches-emcore-customer-relief-program-for-former-emcore-ad-customers/>.

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## Optical Zonu Joins Forces with Former EMCORE Resellers to Bridge Market Gap

July 20, 2023 | Editorial Team



Optical Zonu, a leading provider of [radio frequency over fiber \(RFOF\)](#) transport solutions, has announced that it has partnered with several former [EMCORE](#) resellers, including [UR Group](#), [ProTEQ Solutions](#), and [RF Electronic Sales](#). The new distribution and sales partnerships expand Optical Zonu's presence in the Northeastern and Mid-Atlantic United States and in Germany, Japan, and Italy.

After EMCORE dissolved its optoelectronics business in late April, resellers were faced with an influx of customer inquiries and nowhere to turn. Optical Zonu's EMCORE Customer Relief Program, which offers [RFOF infrastructure](#) replacement and ongoing technical support for former EMCORE aerospace and [defense](#) customers, provided a natural match for former EMCORE resellers to transition to a new supplier and continue business without any interruption.

The EMCORE Customer Relief Program provides 24/7 technical service support, onsite technician training, onsite installation, and support as needed. It is also capable of identifying comparable and compatible Optical Zonu products in less than two hours. The replacement equipment from Optical Zonu can be equipped with its patented small pluggable [transceiver](#) that can be inserted in any device and is capable of locating fiber faults within a few meters for reduced detection time.

*"I had a 20-year relationship with EMCORE optical solutions until their broadband division closure left a void in providing my customers with RF Over Fiber and Optical Delay Line solutions," said [Steve Moloy](#), senior sales engineer at ProTEQ. "We are fortunate to have quickly pivoted to Optical Zonu, which provides another best-in-class manufacturer of these solutions to complement our existing RF, [MMW](#), digital, and ATE system test solutions. Optical Zonu is a great addition to our comprehensive line of tier-1 cutting-edge technology solutions."*

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**Laser Focus World - June 27, 2023****LASER FOCUS  
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FIBER OPTICS

## Faces in Photonics: Meir Bartur, Optical Zonu

Meet Meir Bartur, cofounder and CEO of Optical Zonu, a provider of radio-frequency-over-fiber (RFoF) transport solutions.

[Sally Cole Johnson](#)June 27, 2023 

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**LFW: What are the most disruptive/intriguing things you're seeing emerge in photonics right now?**

**Bartur:** The most disruptive and intriguing photonic developments right now include advancements in higher-frequency direct-modulation lasers and a shift toward domestic manufacturing in the U.S. The improvement and development of direct-modulation lasers for higher frequencies holds significant importance for critical applications, particularly for military operations and defense, because of cost and compactness advantages. This is particularly exciting to us, as this technology becomes more available, because we can provide a higher-end fiber solution to use it.

There is also growing U.S. recognition to reshore domestic fiber-optic component manufacturing to reduce our dependence on other nations. Recently, the CHIPS Act was introduced and represents a significant commitment by the U.S. government to support and incentivize domestic high-tech R&D and manufacturing, including within the field of photonics. It seeks to foster innovation, strengthen national capabilities, and ensure we remain competitive. Since Optical Zonu's solutions are manufactured and tested at our California facility, we're well positioned for this momentum.

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Lightwave - June 15, 2023

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## Optical Zonu targets RF-over-fiber 'relief' program at aerospace and defense markets

EMCORE's decision this past April to shut down its defense optoelectronics product line has provided a market opportunity, Optical Zonu believes.

Stephen Hardy  
June 15, 2023



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Sept. 12, 2023



Optical Zonu Corp. has launched what it calls an "EMCORE Customer Relief Program" in hopes of capturing new customers.

The relief program comprises several facets:

- Identification of suitable replacement products in less than two hours
- Technical support from Optical Zonu team members with more than 10 years of EMCORE equipment training
- Free technician training and certification at Optical Zonu headquarters in Van Nuys, CA.
- Delivery of replacement RFoF transport systems with the company's patented small pluggable transceivers with built-in OTDR capabilities (an longstanding Optical Zonu calling card; see, for example, "[Optical Zonu launches SFP transceiver with integrated OTDR](#)").
- Support of frequency ranges from a few kilohertz to 70 GHz and distances greater than 50 km with Ethernet and simple network management protocol (SNMP).
- Available on-site installation and support.

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## Optical Zonu Steps up as Emcore Announced Plans to Shut Down its Broadband Business

June 8, 2023 | Editorial Team

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with evolving industry standards. Additionally, Optical Zonu has gone a step further by offering assistance for legacy [Ortel](#) and legacy Emcore hardware, demonstrating their commitment to serving customers with varying system requirements.

Among the legacy Emcore parts, Optical Zonu provides support for the [SITU/SIRU 18, 22, and 40 GHz](#) standalone flange mount modules. Furthermore, they offer assistance for the [OTS-2T](#) and [OTS-2R Optiva 19" chassis plug-in modules](#). In an effort to provide robust solutions for diverse environments, these higher frequency assemblies are also available in an [IP67](#) outdoor enclosure.

Optical Zonu Corporation's dedication to customer satisfaction and comprehensive support has earned them a prominent position in the industry. By offering a wide range of services, including equipment integration, repairs, and complete system architectures, the company ensures that former Emcore customers can smoothly transition their operations without disruptions. Optical Zonu's commitment to compatibility and their provision of solutions for legacy hardware further strengthens their position as a reliable partner in the fiber optic industry.

As the industry continues to evolve, Optical Zonu remains committed to delivering cutting-edge solutions and personalized support to meet the needs of their customers. With their comprehensive range of services, the company is poised to make a lasting impact on the fiber optic market, further cementing their reputation as an industry leader.

[Click here for more information on the Optical Zonu Emcore Relief plan.](#)

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INDUSTRY NEWS

# Optical Zonu Launches EMCORE Customer Relief Program for Former EMCORE A&D Customers

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EMCORE
OPTICAL ZONU

**Optical Zonu Corporation**, provider of radio frequency over fiber (RToF) transport solutions, announced its EMCORE Customer Relief Program, which offers RToF infrastructure replacement and ongoing technical support for former EMCORE aerospace and defense customers after the company dissolved its optoelectronics business in late April.

RToF solutions convert RF into lightwaves to avoid signal degradation and interference when transporting mission-critical communication over long distances and in harsh environments, where RF signals cannot penetrate. Common use cases for RToF in the defense and aerospace industries include RF signal transport for antenna remoting on military vessels including aircrafts and ships, secure satellite phone connection in sensitive environments and SCIFs, as well as GPS timing.

and these communication systems are continuously upgraded, reconfigured and improved to meet changing and often arduous environments," says Meir Bartur, co-founder and CEO of Optical Zonu Corporation. "We developed the EMCORE Customer Relief Program to aid organizations facing this issue in the wake of EMCORE sunsetting their broadband business."

The EMCORE Customer Relief Program provides a series of services:

- Identify the comparable and compatible replacement products in less than two hours
- Experienced technical support from team members with over 10 years of EMCORE equipment training
- Free onsite technician training and certification at Optical Zonu headquarters in Van Nuys, Calif., to transition off EMCORE products (located less than 25 miles away)
- Replacement RToF transport solutions can be equipped with its patented small pluggable transceiver capable of locating the precise location of any fiber faults within a few meters for reduced detection time
- Supports frequency ranges from a few KHz to 70 GHz and distances greater than 50 km with Ethernet and simple network management protocol (SNMP)

ate installation and support is available.

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# Who We Are

Optical Zonu Corporation is a privately owned high technology company located in Los Angeles, CA, specializing in the design and manufacturing of Fiber Optic Components for Analog Transmission, Digital Transmission, Business Class Services and Coarse Wavelength Division Multiplexing. OZC is the leading supplier of Full Duplex, Single Fiber, Single Wavelength Transceivers and RF over Fiber Optic Links. OZC maintains important strategic and global relationships in the Industry and cooperates with major vendors and suppliers of optical, communication and electronic devices, to enable rapid production of cutting-edge solutions.

## Optical Zonu Headquarters

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