



PRODUCT BRIEF



EXTEND NETWORK RANGE & CAPACITY

The broadest PtP millimeter wave offering

The Ceragon family of PtP millimeter wave solutions

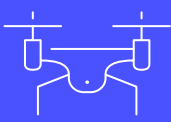
Millimeter wave (mmW) wireless transport is an attractive, lower-cost alternative to traditional microwave (MW) technology for delivering high speed data for private network use cases, such as fixed wireless access (FWA), fiber network extension/backup, enterprise multi-gigabit connectivity, metro and aggregation networks, multi-dwelling unit (MDU) gigabit broadband, in addition to backhaul transport. The use of E-band and V-band overcomes the shortage of available spectrum on microwave frequencies, and delivers high-capacity, extensive frequency re-use, and low latency transport at a lower cost. These advantages combine to make mmW a strong, scalable alternative for a variety of scenarios that until recently, could only be addressed by MW connectivity.

LEVERAGING THE SPECTRUM

Deploying mmW technology in support of a variety of applications offers significant advantages, stemming primarily from its high-frequency spectrum. Leveraging this spectrum, mmW can transmit large amounts of data at very high speeds, a crucial capability in the age of 5G and IoT, where data demand is skyrocketing. For instance, mmW can provide gigabit-level capacity, enabling seamless streaming of high-definition video content. This is particularly beneficial in dense urban areas where space is at a premium. Furthermore, the high frequency also means that mmW has a large number of available bandwidths, which reduces the risk of network congestion.

Reliability, flexibility, and scalable capacity

At Ceragon, we harness the strengths of mmW to deliver superior wireless transport solutions. Our advanced mmW systems, enhanced by the Siklu by Ceragon portfolio, are designed to address the key challenges of modern networks, providing high-capacity, reliable, and cost-effective connectivity, thus empowering our clients to stay ahead in the fast-evolving digital landscape. With our deep industry knowledge and technical expertise, we are not only meeting today's connectivity needs but also shaping the future of wireless communication.



SOLVING
5G & IOT
CAPACITY DEMANDS



THE PRODUCTS



MEET THE **MILLIMETER WAVE FAMILY**

1-20 Gbps capacity that meets your needs

Ceragon offers the broadest mmW portfolio in the industry, scaling from 1Gbps TDD capacity all the way up to a market-leading 40 Gbps FDD capacity. These solutions are smaller and lighter than any other similar equipment which enable easier installation and faster deployment, helping to reduce operational costs. They consist of point-to-point links (in addition to our point-to-multi point line of products) that operate in the millimeter wave spectrum. In the densest cities on earth where spectrum resources are limited, our mmW products provide excellent link budget needs while delivering optimal bandwidth and modulation for your service requirements.

The Ceragon mmW family successfully fulfills a wide range of scenarios. When mission-critical networks demand uninterrupted video streams, smart city sensor data, control and monitoring of utility IOT devices, or high-capacity 5G access, we have a mmW solution that fits your needs. Whether you need unlicensed V-band connections for short distances or ultra-high capacity, licensed E-band frequencies, Ceragon's mmW family has a solution that provides a reliable network, including embedded AES encryption for optimal security.

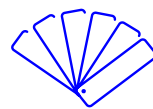
Our mmW PtP family advantages



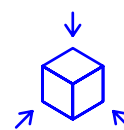
Pay-as-you-grow
multi-gigabit capacity



Abundant available
spectrum



A solution
for any scenario



Fast time-to-market
with small size
& easy installation

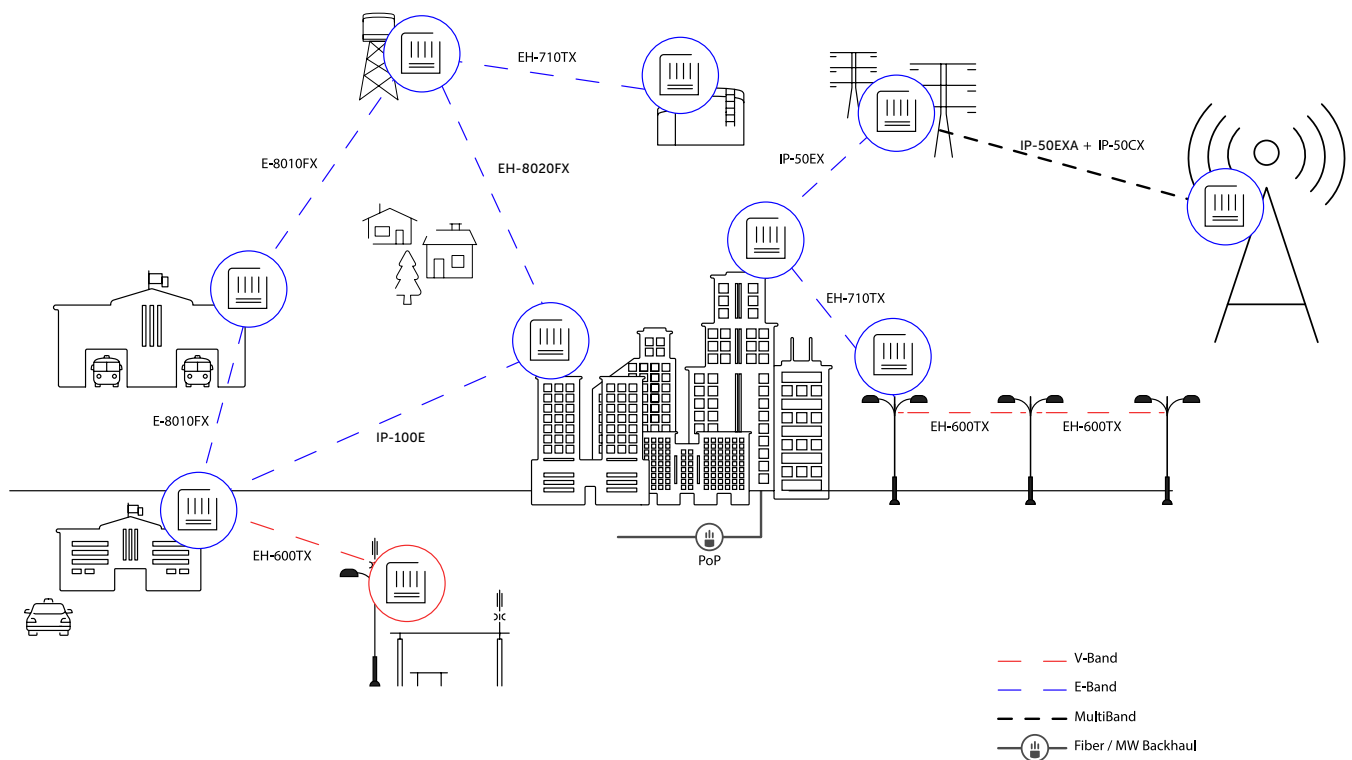


THE PRODUCTS

USE CASES

Millimeter wave (mmW) wireless supports a wide range of use cases, providing solutions for various private network needs such as connecting IOT devices and facilities for utility companies, Wi-Fi backhauling & video surveillance for public safety, and multi-gigabit connectivity for business and educational campuses. Other scenarios include fixed wireless access (FWA), fiber network extension/backup, and multi-dwelling unit (MDU) gigabit broadband. Multiple communication and internet service provider scenarios, such as metro and aggregation networks and backhaul transport, are also supported.

The following diagrams and product details provide an overview of the use case implementations enabled by our mmW portfolio which consist of our IP-50 and EtherHaul (EH*) series of products.



THE PRODUCTS



EtherHaul-614TX

High reliability & capacity V-band solution

The EH-614TX delivers 1 Gbps aggregated capacity using 60 GHz V-band technology. This compact, durable radio is engineered for a variety of use cases including smart cities, business broadband, Wi-Fi backhaul, fiber-to-the-home, and small cell connectivity.

Deployable on poles, light fixtures, and other street-level infrastructure, it perfectly blends into urban aesthetics. The EH-614TX taps into the whole 60 GHz spectrum from 57 GHz to 68 GHz. By utilizing 14x full capacity, non-overlapping channels all the way up to the upper V-band frequencies, it achieves further reach and minimizes signal loss from oxygen absorption for longer links. Leveraging it for very short range links, it enables unmatched network scalability.

Although the solution utilizes the unlicensed 60 GHz spectrum, the EH-614TX with its narrow beam antennas and 14 channels, is immune to interference while supporting massive frequency reuse which is crucial for dense networks.

With IP67's fully sealed design, the radio withstands harsh outdoor environments ranging from -45°C to +55°C. Its integrated all-silicon, field-proven technology enhances reliability, reduces size, and minimizes truck rolls.

As the world's top-selling millimeter wave radio for demanding critical networks, the field-proven EtherHaul series delivers unmatched reliability, reinforcing Ceragon's innovative leadership in wireless connectivity.



**EASILY BLENDS
INTO THE URBAN LANDSCAPE**



THE PRODUCTS

EtherHaul-614TX Products Specifications

RADIO

- 57-68 GHz, TDD
- Max Capacity – 1 Gbps TDD with user-configurable asymmetric mode
- Channel BW - 125/250/500 MHz wide, 14 non-overlapping channels, QPSK ÷ QAM64
- Up to 5 levels of hitless adaptive bandwidth, coding, and modulation
- Boost gain by up to 25 dB
- 0.5 ft/1 ft/2 ft detachable antennas

NETWORKING

- IEEE 802.1d transparent bridging
- VLAN and VLAN stacking
- 4K VLANs, MEF 9, 14, and 21 compliant Ethernet services
- Smart pipes transparent ports mode
- Link aggregation:
 - LAG and LACP (IEEE 802.3ad)
- Ethernet ring protection switching
 - ITU-T G.8032 ERPS Link state propagation
 - 16 KB jumbo frames
 - Configurable QOS-aware forwarding
- 8 level H-QoS with multi-mapping options:
 - L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
- Security:
 - AES 128-bit and AES 256-bit encryption

INTERFACES

- 1 x GE ports (RJ-45), POE IN
 - 2 x GE ports (RJ-45), POE OUT
-



THE PRODUCTS



EtherHaul-710TX

Our compact E-band solution

The EH-710TX, the smallest E-band radio on the market, provides cost-efficient 1 Gbps aggregated capacity and interference-free ethernet connectivity. Combining the best of both worlds, working in the lightly-licensed E-band, and featuring the small form factor of V-band, the EH-710TX is an Ideal solution for street-level and street-level to rooftop deployments that demand a small form factor and peace of mind associated with the licensed bands. Operating over the uncongested E-band makes it applicable for various use cases, such as video surveillance, Wi-Fi backhaul, broadband services, campus connectivity, and smart cities.

The palm-sized radio simplifies site acquisition and installation. It comes with a choice of antennas for varying ranges and availabilities, a GbE switch, and dual PoE-out, enabling the easy cascading of radios and powering of external devices such as video cameras and wi-fi access points.

The 70 GHz spectrum is uncongested, even in dense urban areas, offering easy spectrum acquisition. With a wide range of high-gain antennas selection, abundant spectrum, low licensing fees, and quick acquisition procedures, this E-band radio utilizes channel availability and maximizes spectrum reuse.

The EH-710TX, field-proven with tens of thousands of successful deployments worldwide, can be installed without requiring telco expertise—it simply works out-of-the-box! With minimal deployment costs and virtually no maintenance, it offers exceptional value, minimizing total cost of ownership and often providing a return on investment measured in months.



**EASY TO INSTALL
WITHOUT TELCO EXPERTISE**



THE PRODUCTS

EtherHaul-710TX Product Specifications

RADIO

- 71-76 GHz
- Max capacity – 1 Gbps TDD with user-configurable asymmetric mode
- Channel BW - 125/250/500 MHz wide, 32/16/8 non-overlapping full capacity channels
- QPSK ÷ QAM64 with up to 5 levels of hitless adaptive bandwidth, coding, and modulation - boost gain by up to 25 dB
- 0.5 ft/1 ft/1.5 ft/2 ft detachable antennas

NETWORKING

- IEEE 802.1d transparent bridging
- VLAN and VLAN stacking
- 4K VLANs, MEF 9, 14 and 21 compliant Ethernet services,
- Smart pipes transparent ports mode
- Link aggregation: LAG and LACP (IEEE 802.3ad)
- Ethernet ring protection switching:
 - ITU-T G.8032 ERPS link state propagation
 - 16 KB jumbo frames
- Configurable QOS-aware forwarding
- 8 level H-QoS with multi mapping options:
 - L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
- Security:
 - Configurable QOS-aware forwarding

INTERFACES

- 1 x GE ports (RJ-45), POE IN
 - 2 x GE ports (RJ-45), POE OUT
-



THE PRODUCTS



EH-1200FX & EH-2500FX

Superior performance E-band

The EH-1200FX & EH-2500FX deliver full duplex connectivity at 1 Gbps and 2 Gbps respectively, making them great solutions for business broadband, gigabit-to-the-home (GTTH), campus connectivity, and multi-megapixel video surveillance deployments. Both devices deliver an advanced wireless solution with uncongested connectivity over the 71-76/81-86 GHz spectrum.

With pencil-thin beams, the EH-1200FX and EH-2500FX provide zero interference and high reliability. Both radios support up to 16 non-overlapping channels, making them an incredibly scalable solution for dense urban deployments where spectrum scarcity limits microwave options. In addition, the pairs' E-band capabilities offer the added benefit of low licensing fees and expedited approvals.

With an L2 switch, extra ports, and MEF-compliant integrated carrier Ethernet features, the pair provide resilient topology implementation without any additional equipment, streamlining your overall operations.

Extended reach with high availability can be achieved with the groundbreaking ExtendMM™ solution—the easiest, most cost-effective dual-band solution available on the market today.

Both all-outdoor radios have small footprints, ensuring easy site acquisition and quick installation. Built on Ceragon's advanced integrated-silicon technology, these compact and lightweight radios offer high reliability and an unbeatable price-to-throughput ratio, delivering significant value at a low total cost of ownership (TCO).



**COMBINES HIGH-THROUGHPUT & LOW-LATENCY
TO DELIVER EXCELLENT PERFORMANCE**



THE PRODUCTS

EH-1200FX & EH-2500FX Product Specifications

RADIO

- 71-76/81-86 GHz (Tx high and low)
- Max Capacity:
 - EH-1200FX | 1 Gbps FDD
 - EH-2500FX | 2 Gbps FDD
- Channel BW:
 - EH-1200FX | 250/500 MHz
 - EH-2500FX | Multiband 250/500/750/1250 MHz
- 0.5 ft/1 ft/1.5 ft/2 ft detachable antennas
- 1 ft/2 ft dual-band 70/80 GHz + 5.8 GHz

NETWORKING

- IEEE 802.1d transparent bridging
- VLAN and VLAN stacking
- 4K VLANs, MEF 9, 14 and 21 compliant Ethernet services
- Smart pipes transparent ports mode
- Link aggregation: LAG and LACP (IEEE 802.3ad)
- Ethernet ring protection switching:
 - ITU-T G.8032 ERPS link state propagation
 - 16 KB jumbo frames
 - Configurable QOS-aware forwarding
- 8 level H-QoS with multi mapping options:
 - L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
- Security: AES 128-bit and AES 256-bit encryption (EH-1200FX only)

INTERFACES

- EH-1200FX
 - Aux
 - 2 x 1 GbE RJ-45 (copper)
- EH-2500FX
 - DC port
 - Aux
 - 2 x 1 GbE RJ-45 (copper)
 - 2 x 1 GbE SFP (fiber)



THE PRODUCTS



EtherHaul-8010FX

The ultimate solution for private markets

The ultimate solution for private markets is the EH-8010FX, a 10 Gbps wireless backhaul radio optimized for high-capacity metro, aggregation, and infrastructure networks. With its long reach, fiber-like performance, ultra-low latency, and small form factor, it provides a flexible and easy-to-deploy fiber extension solution for service providers and enterprises.

Key features include 10 Gbps throughput with the longest reach in its class, IP67 weatherproofing, and bridging, with AES-encryption to ensure secure wire-speed connectivity. Its robust design delivers proven reliability even in harsh conditions.

Operating in the 71-76/81-86 GHz E-band, the EH-8010FX avoids interference with 10 GHz of available spectrum globally. Its high-gain antennas enable massive frequency reuse. As always, network operators benefit from low licensing costs and fast approval processes of E-band.

With advanced networking capabilities like QoS awareness, the EH-8010FX integrates seamlessly with existing networks. It provides exceptional value, driving fast ROI and low TCO through scalable performance, easy deployment, and reliable operation.



**SCALABLE PERFORMANCE
EASY DEPLOYMENT, AND RELIABLE OPERATION**



THE PRODUCTS

EtherHaul-8010FX Product Specifications

RADIO

- 71-76/81-86 GHz (Tx high and low)
- Max capacity: 10 Gbps
- Channel BW - 250, 500, 1250 & 2000 MHz
- Multiband

NETWORKING

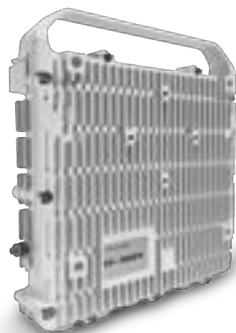
- IEEE 802.1d transparent bridging
- VLAN and VLAN stacking
- 4K VLANs, MEF 9, 14 and 21 compliant Ethernet services
- Smart pipes transparent ports mode
- Link aggregation: LAG and LACP (IEEE 802.3ad)
- Ethernet ring protection:
 - 10 KB jumbo frames
 - Configurable QOS-aware forwarding
- 8 level H-QoS with multi mapping options:
 - L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
- Security: AES 128-bit encryption

INTERFACES

- 48V DC (redundant with the POE in)
 - Aux
 - ETH 1 copper 1 Gbps
 - ETH 2 COMBO 10 Gbps (copper/SFP+)
-



THE PRODUCTS



EtherHaul-8020FX

For capacity-hungry private networks

Private networks are rapidly transforming, becoming increasingly powerful and complex. Service providers across industries—whether in ISP, public safety, energy, or smart city applications—face the growing challenge of delivering higher capacity while keeping costs under control.

To answer customer requests for an affordable, easy-to-install and manage, high-capacity solution, Ceragon unveils the new product of the EtherHaul 8000 family. The EH-8020FX was engineered to balance cost-efficiency with high capacity, while ensuring seamless installation and straightforward maintenance.

The EH-8020FX sets a new benchmark for private networks connectivity with its 20 Gbps throughput in a 2+0 XPIC configuration, also allowing for more services to be connected through one copper RJ-45 connection and two SFP+ 10 Gbps interfaces. Designed to endure, its IP67-rated weatherproofing and robust construction ensure reliable performance under harsh conditions. AES-encryption provides secure, wire-speed connectivity, supporting critical applications and offering peace of mind.

While adding more capacity and interfaces to its design, the 8020FX still inherits the E-band advantages: operating within the 71-76/81-86 GHz spectrum, creating minimal interference so the same frequency can be reused multiple times, and benefiting from the same low licensing costs and expedited approvals, for a highly streamlined deployment.

Integrated with advanced networking capabilities like QoS awareness, the EH-8020FX integrates seamlessly into existing infrastructure. By delivering scalable performance, easy deployment, and dependable operation, it drives rapid ROI and ensures a low total cost of ownership (TCO).



**HIGH CAPACITY, EASY DEPLOYMENT,
AND MORE CONNECTION OPTIONS**



THE PRODUCTS

EtherHaul-8020FX Product Specifications

RADIO

- 71-76/81-86 GHz (Tx high and low)
- Max capacity: 20 Gbps (2+0 XPIC)
- XPIC configuration
- Channel BW - 250, 500, 1250 & 2000 MHz
- Multiband

NETWORKING

- IEEE 802.1d transparent bridging
- VLAN and VLAN stacking
- 4K VLANs, MEF 9, 14 and 21 compliant Ethernet services
- Smart pipes transparent ports mode
- Link aggregation: LAG and LACP (IEEE 802.3ad)
- Ethernet ring protection:
 - 10 KB jumbo frames
 - Configurable QOS-aware forwarding
- 8 level H-QoS with multi mapping options:
 - L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
- Security: AES 128-bit encryption

INTERFACES

- 1x 1 Gbps RJ45 PoE in
 - 2x 10 Gbps SFP+
 - 48V DC (redundant with the POE in)
 - RSSI measurement
 - XPIC signaling
-



THE PRODUCTS



IP-50EX FAMILY

The smallest form factor, carrier grade mmW radio

The IP-50EX family provides up to 10 Gbps capacity in 1+0 configurations. In a 2+0 XPIC configuration, the IP-50EX family provides up to 20 Gbps, with seamless traffic distribution and improved link survivability. As a carrier-grade solution, it comes equipped with an integrated carrier Ethernet services switch that includes a 25 GbE traffic interface making it easier to connect to similar interfaces. The carrier Ethernet services switch also complies with MEF CE 2.0 and SLA requirements for essential services applications.

The IP-50EX family features adaptive coding modulation and bandwidth (ACMB), providing hitless transmission and efficient modification of the radio's modulation and channel bandwidth, in order to cope with fading conditions. IP-50EX's versatile design makes it a great candidate for a diverse range of networking requirements, including everything from macro site backhaul to small cell connectivity and building-to-building connections.

Its dependable performance and advanced features make the IP-50EX an excellent choice for networks requiring enhanced capacity and efficient, compact deployment options.

Meet the IP-50EX Family

IP-50EX: The smallest, lightest carrier grade radio delivering 10 Gbps in a box

IP-50EX-P: A powerful radio with high transmit power of 24 dBm, PoE-in and user data encryption enabling you to cover longer distances with higher availability

IP-50EXA: A state-of-the-art, multiband/multi-box radio enabling up to 20 Gbps reliable traffic



**COST EFFECTIVE, HIGH CAPACITY
WITH CARRIER GRADE PERFORMANCE**



THE PRODUCTS

Antenna options:

IP-50EX FAMILY Product Specifications

RADIO

- Supported frequency bands: 71-86 GHz
- Radio capacity: 10 Gbps/20 Gbps for 2+0 XPIC
- Supported channel spacing: 250-2000 MHz
- ACM steps: 11, 1/2 BPSK-1024QAM
- High TX Power up to 24 dBm
- Antenna options:
 - Parabolic
 - Integrated flat panel (future release)
 - E-Stabilizer (2, 3 ft)
- 1+1 HSB protection

NETWORKING

- IEEE 802.1d transparent bridging
- Supports XPIC and multiband
- Networking: integrated carrier Ethernet switching capabilities, MEF carrier Ethernet 2.0 compliant | carrier-grade service resiliency (G.8032, MSTP) | SyncE and 1588 synchronization | ITU-T Y.1731 fault and performance management (MEF 35) | SDN | layer 3 (using IP-50FX)
- Security: AES radio encryption | secured protocols and management interfaces (HTTPS, TLS, SSH, SNMPv3) | secured architecture and software design | advanced authentication and identification management

INTERFACES

- 2 x 1/10/25 GbE traffic interface (SFP28)
 - 1/10 GbE traffic interface (SFP+, eCPRI)
 - 1 GbE management/PoE port
 - QSFP protection/XPIC or 1 x10 GbE (2x10 GbE for IP-50EXA)
-



THE PRODUCTS



IP-50E

Fiber-like, ultra-high capacity

The IP-50E universal E-band radio delivers ultra-high capacity of up to 20 Gbps, supporting a pay-as-you-grow strategy with up to two units in XPIC configuration with layer-1 carrier aggregation over a single cable. Wherever you need fiber-like capacity for fronthaul, backhaul, or wireless access applications, the IP-50E is your cost-efficient, easy-to-deploy fiber-replacement solution.

The IP-50E also allows extended E-band reach with no compromise on availability, thanks to its unique multiband capability.

Using layer-1 carrier aggregation, the IP-50E enables you to combine this high-capacity carrier with any additional microwave, fiber, or leased line connection, thereby ensuring your high-priority service offering meets its SLA target.

Combined with Ceragon's IP-50C, IP-20C, 3rd party radio, and a multiband antenna, you can achieve a compact, all-outdoor, direct-mount 3-carrier solution (single-carrier E-band + two-carrier microwave). This saves on tower load and shelter requirements while simplifying installation, allowing faster time to market, and enhancing operational efficiency.



**MITIGATE AVAILABILITY ISSUES
WITH MULTIBAND PEACE OF MIND**



THE PRODUCTS

IP-50E Products Specifications

RADIO

- Supported frequency bands: 71-86 GHz
 - Radio capacity: 20 Gbps (2+0 XPIC configuration utilizing two units)
 - Supported channel spacing: 62.5-2000 MHz
 - ACM steps: 10, 1/2 BPSK-512QAM
 - Hitless multiband
 - Antenna options:
 - Parabolic
 - Integrated flat panel
 - E-stabilizer (2, 3 ft)
-

NETWORKING

- Layer-1 carrier bonding: supports XPIC and multiband with any additional layer-1 connection
 - Networking: integrated Carrier Ethernet switching capabilities, MEF Carrier Ethernet 2.0 compliant | up to 30% more capacity using header deduplication | carrier-grade service resiliency (G.8032, MSTP) | SyncE and 1588 synchronization | ITU-T Y.1731 fault and performance management (MEF 35) | SDN | layer 3 (using IP-50FX)
 - Security: AES radio encryption | secured protocols and management interfaces (HTTPS, TLS, SSH, SNMPv3) | secured architecture and software design | advanced authentication and identification management
-

INTERFACES

- 4 x 1/10 GbE or 40 GbE traffic interface (QSFP+)
 - 1/10 GbE traffic interface (SFP+, CPRI, eCPRI)
 - 1 GbE traffic interface (SFP) or 1/2.5 GbE multiband port
 - 1 GbE management/PoE port
-



THE PRODUCTS



IP-100E

Dual radio, highest capacity, multiband optimized

The IP-100E delivers industry-leading capacity of up to 25 Gbps 2+0 using 1 unit and 40 Gbps using multi-box , making it the most advanced E-band radio available. The IP-100E leverages layer-1 carrier aggregation to seamlessly integrate this high-capacity carrier with additional microwave, fiber, or leased line connections, ensuring your high-priority services consistently meet their SLA targets. It achieves exceptional multiband performance of 29 Gbps and features an optional antenna stabilizer supporting 2 ft and 3 ft antennas, providing an optimal mmW solution for digital transformation.

Key features include innovative adaptive coding modulation and bandwidth (ACMB) technology, enabling hitless transmission through dynamic modulation and bandwidth adjustment for challenging conditions.

With dual 25 GbE interfaces, the IP-100E provides future-proof Layer 2 connectivity. It serves diverse applications from macro site backhaul to small cell connectivity and building-to-building links, making it ideal for mobile carriers, ISPs, and enterprise networks.



**2+0 E-BAND IN A BOX
WITH 25 GBPS RADIO CAPACITY**



THE PRODUCTS

IP-50E Products Specifications

RADIO

- Supported frequency bands: 71-86GHz
- Radio capacity: 25 Gbps for one unit and 40 Gbps for two units
- Supported channel spacing: 250-2250Hz
- ACM/ACMB steps: 11, 1/2 BPSK-1024QAM
- Transmit power: Up to 21 dBm (Optional)
- Integrated OMT/Splitter

NETWORKING

- Layer-1 traffic aggregation: supports XPIC and multiband with any additional layer connection
- Networking: integrated Carrier Ethernet switching capabilities, MEF Carrier Ethernet 2.0 compliant | up to 30% more capacity using header deduplication | carrier-grade service resiliency (G.8032, MSTP) | SyncE and 1588 synchronization | ITU-T Y.1731 fault and performance management (MEF 35) | SDN | layer 3 (using IP-50FX)
- Security: AES radio encryption | secured protocols and management interfaces (HTTPS, TLS, SSH, SNMPv3) | secured architecture and software design | advanced authentication and identification management

INTERFACES

- 4 x 1/10 GbE or 40 GbE traffic interface (QSFP+)
 - 1/10 GbE traffic interface (SFP+, CPRI, eCPRI)
 - 1 GbE traffic interface (SFP) or 1/2.5 GbE multiband port
 - 1 GbE management/PoE port
-



FINDING THE PERFECT FIT

If you're trying to determine which device is the right fit for your network, start narrowing your options by identifying your spectrum and capacity requirements. Once that's determined, you can filter the list further by selecting the devices that deliver your must-have features. Costs are always a consideration, and greater power and performance often correlate with an increase in CAPEX and OPEX.

		Street level	Rooftop	Antennas	Max rate	1Gb traffic ports	10<Gb ports
V-BAND	EH-614TX	+	+	Integrated - 36 dBi (0.5ft)	1 Gbps Aggregated	3	
	EH-710TX	+	+	38 dBi (5ft) 43 dBi (1ft), 46 dBi (1ft), 50 dBi (2ft)	1 Gbps Aggregated	3	
	EH-1200F/FX	+	+	38 dBi (5ft) 43 dBi (1ft), 46 dBi (1ft), 50 dBi (2ft)	1 Gbps FD	2	
	EH-2500F/FX	+	+	38 dBi (5ft) 43 dBi (1ft) 46 dBi (1ft) 50 dBi (2ft)	2 Gbps FD	4	
E-BAND	EH-8010FX	-	+	38 dBi (5ft) 43 dBi (1ft), 46 dBi (1ft), 50 dBi (2ft)	10 Gbps FD	1	2x10 GbE
	EH-8020FX	-	+	50 dBi (2ft)	20 Gbps FD in 2+0	1	2x10 GbE
	IP-50EX	-	+	44 dBi (1ft) 50 dBi (2ft) 54 dBi (3ft)	10 Gbps FD in 1+0	1	2x25 GbE 1x10 GbE
	IP-50E	-	+	43 dBi (1ft) 50 dBi (2ft) 54 dBi (3ft)	20 Gbps FD in 2+0	1	1x40 GbE 4x10 GbE 1x10 GbE
	IP-50EX-P	-	+	44 dBi (1ft) 50 dBi (2ft) 54 dBi (3ft)	10 Gbps FD in 1+0	1	2x25 GbE 1x10 GbE
	IP-50EX-A	-	+	44 dBi (1ft) 50 dBi (2ft) 54 dBi (3ft)	20 Gbps FD in 2+0	1	2x25 GbE 1x10 GbE



SUMMARY

Ceragon's family of mmW radios introduces cutting-edge technological innovations, utilizing the most compact radios and providing the highest bandwidth support. These advanced solutions are meticulously designed to deliver the most optimized performance with low latency, high availability and high capacity. Embrace these flexible solutions to maintain a competitive edge in the era of digital modernization and elevate your network to new heights.

4 MAIN VALUES

+ MULTI-GIGABIT CAPACITY

+ ABUNDANT AVAILABLE SPECTRUM

+ A SOLUTION FOR ANY SCENARIO

+ SMALL FORM FACTOR AND EASY INSTALLATION

ABOUT CERAGON NETWORKS

Ceragon Networks Ltd. (NASDAQ: CRNT) is the global innovator and leading solutions provider of end-to-end wireless connectivity, specializing in transport, access, and AI-powered managed & professional services. Through our commitment to excellence, we empower customers to elevate operational efficiency and enrich the quality of experience for their end users.

Our customers include service providers, utilities, public safety organizations, government agencies, energy companies, and more, who rely on our wireless expertise and cutting-edge solutions for 5G & 4G broadband wireless connectivity, mission-critical services, and an array of applications that harness our ultra-high reliability and speed. Ceragon solutions are deployed by more than 600 service providers, as well as more than 1,600 private network owners, in more than 130 countries.

Through our innovative, end-to-end solutions, covering hardware, software, and managed & professional services, we enable our customers to embrace the future of wireless technology with confidence, shaping the next generation of connectivity and service delivery. Ceragon delivers extremely reliable, fast to deploy, high-capacity wireless solutions for a wide range of communication network use cases, optimized to lower TCO through minimal use of spectrum, power, real estate, and labor resources - driving simple, quick, and cost-effective network modernization and positioning Ceragon as a leading solutions provider for the "connectivity everywhere" era.

For more information please visit: www.ceragon.com

