CERAGO SOLUTION GUIDE

OUR RESOURCES ARE YOUR SOLUTION



Distributors of

Wireless and Connectivity Products

The Ceragon Solution



Ceragon's microwave communication technology provides leading connectivity solutions with the highest capacity and most reliable radio links



FibeAir® IP-20C

Multi-core radio technology delivering multi-Gbps anywhere

- Virtual fiber in licensed frequencies (6-38 GHz)
- 1 Gbps radio throughput over a single 30MHz channel
- More than 2 Gbps capacity using wider channels
- 2048 QAM modulation
- Integrated XPIC in a single unit
- LoS 4X4 MIMO quadrupling capacity using only 2 radio units
- DC connection using either PoE or DC cable



FibeAir® IP-20S

Compact, all-outdoor, high-capacity for hauling of edge nodes

- Single-core radio node
- High radio capacity and spectral efficiency
- Multi-purpose platform, ideal for versatile deployment scenarios
- High service granularity enables rollout of new business models
- Common OS & software-defined engine simplifies network modernization

FibeAir® RFU-C / RFU-Ce

All-outdoor solution for packet backhaul with zero footprint

- All-outdoor, compact size ideal for tower and rooftop installations
- Quick and easy installation and set up
- Highly reliable
- · Better availability
- Smaller antennas and high system gain
- High capacity with up to 500Mbps per carrier



FibeAir® RFU-A



Indoor mount high transmit power RFU designed for compact long-haul applications

FibeAir® RFU-HP



High transmit power RFU designed for long haul applications

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RFU Featureset		IP20C HPR2	IP-20C	IP-20S	RFU-C*	RFU-Ce*	RFU-Ae*	RFU-HP*
Installation Type	Split	COLLIN		Ois	X	Х	ario	Х
	All Indoor				10		X	Х
	All Outdoor	Х	X	Х	i diji		((C)	
Frequency Support		6-11GHz	6-38GHz	6-38GHz	6-38GHz	6-38GHz	5.8-11GHz	6-11GHz
Max Throughput (1+0)		1Gbps+	1Gbps+	1Gbps+	400Mbps	500Mbps	500Mbps	300Mbps
Modulation		4 - 2048QAM	QPSK- 2048QAM	QPSK- 2048QAM	QPSK- 256QAM	QPSK- 1024QAM	QPSK- 1024QAM	QPSK- 1024QAM
Max FCC Channel		80MHz	80MHz	80MHz	56MHz	56MHz	56MHz	56MHz
Max Tx Power		35dBm	29dBm	29dBm	26dBm	26dBm	33dBm	33dBm
XPIC		Х	Х		X	X	X	X
MIMO		Х	Х		9	:65		,0 ⁽⁵⁾
POE			Х	Х		*KONT	Yis.	
DC		Х	Х	Х		Viec.	Ois	
DC		X	X	Х		ries	C	

^{*}Max 256QAM/40MHz channel when used with IP10E chassis

Indoor Units (IDU)						
IDU Featureset	IP-20G	IP-20A configurable				
GiGE Interfaces	2x SFP/4x GigE	Nx Eth/sfp				
TDM Interfaces	16 T1	Nx T1, OC3				
Radio Interfaces	2x TNC-F	up to 10 TNC-F				
Power	2x 48VDC	2x 48VDC				

FibeAir® IP-20G

High-capacity, hybrid, split-mount for edge and ring nodes

- Optimized tail/edge solution supporting seamless integration of radio (L1) and end-to-end Carrier Ethernet transport/services (L2) functionality
- Rich packet processing feature set for support of engineered end-to-end Carrier Ethernet services with strict SLA
- Integrated support for multi-operator and converged backhaul business models, such as wholesale services and RAN-sharing
- Highest capacity, scalability and spectral efficiency
- High precision, flexible packet synchronization solution combining SyncE and 1588v2
- Best-in-class integrated TDM migration solution
- Future-proof with maximal investment protection
- Supports RFU-Ce for modulations up to 1024QAM
- · Specifically built to support resilient and adaptive multi-carrier radio links, scaling to GE capacity



FibeAir® IP-20A

Ultra-high power multi-radio solution

- Highest capacity, scalability and spectral efficiency
- Specifically built to support resilient and adaptive multi-carrier radio links, scaling to GE capacity
- Rich packet processing feature set for support of engineered end-to-end Carrier Ethernet services with strict SLA
- Best-in-class integrated TDM migration solution
- Future-proof with maximal investment protection

FibeAir® IP-20 Assured Platform

A single platform for mission critical wireless backhaul needs

Enhancing your network reliability & security

Keep ahead of threats. Keep your data safe.

- •Validated FIPS 140-2 specs for cryptography module
- •FIPS 140-2 level 2 physical security
- •AES 256 encryption (FIPS 197) over radio links
- •Secured communication and protocols for management interface
- Centralized user authentication management via RADIUS



- Advanced identity management and Password policy enforcement
- Security events log
- Secure product architecture and development

