

FibeAir[®] 3200T

System Specifications

Introducing FibeAir[®] 3200T

Ceragon's FibeAir 3200T provides high capacity connectivity with multiple STM-1, OC-3, FE or GbE, nxE1/T1 interfaces, enabling the deployment of voice and data services for rapidly growing networks. Quickly and easily deployed, the FibeAir 3200T trunk system represents an economical alternative to fiber optic lines and is a highly reliable point-to-point backbone transmission system.

The FibeAir 3200T long haul trunk solution includes value added features such as full TDM and IP capabilities and unique flexibility options. This unique solution is ideal for both all indoor and split-mount installations using a single hardware design, powering carriers with maximum flexibility to meet the wide range of custom requirements. Packed with the latest generation technology and cost saving features, FibeAir 3200T is your best trunk radio choice for effective long-haul SDH, SONET, ATM, PDH and IP networks.

RF Specifications for 128 QAM Modulation

STM-1/OC-3/3xDS3

Frequency	6L GHz	7 GHz	8 GHz	11 GHz
Standards	ETSI ; FCC	ETSI	ETSI	ETSI ; FCC
Operating Frequency Range (GHz)	5.925-6.425	7.1-7.9	7.725-8.5	10.7-11.7
RF Channel Spacing (MHz)	29.65	28, 30	28, 29.65, 30	28, 30
TX Power (dBm)	32	32	32	29
RSL Threshold (dBm) at BER=10 ⁻⁶	-69	-69	-69	-69
System Gain (dB)	101	101	101	98
ATPC (dB)		Up to 20		

RF Specifications for 64 QAM Modulation

STM-1/OC-3/3xDS3

Frequency	6H GHz	8 GHz	11 GHz
Standards	ETSI		ETSI; FCC
Operating Frequency Range (GHz)	6.425-7.1	7.725-8.5	10.7-11.7
RF Channel Spacing (MHz)	40	40	40
TX Power (dBm)	33	32	29
RSL Threshold (dBm) at BER=10 ⁻⁶	-71	-71	-71
System Gain (dB)	104	104	100
ATPC (dB)		Up to 20	



RF Specifications for 50-200 Mbps Ethernet Solutions

FE + 8E1/DS1, GbE + 8E1/DS1

Frequency	6L GHz	7 GHz	8 GHz	11 GHz
Standards	ETSI ; FCC	ETSI	ETSI	ETSI ; FCC
Operating Frequency Range (GHz)	5.925-6.425 6.425-7.1	7.1-7.9	7.725-8.5	10.7-11.7
RF Channel Spacing (MHz)	10, 14,15,20,28,29.65, 30, 40			
Modulation	QPSK, 32, 64, 128, 256 QAM			
Tx Power (dBm)	31, 32, 33			-28, 29, 30
RSL Threshold (dBm) at BER=10 ⁻⁶	-84, -78, -71, -69, -64			
ATPC (dB)	Up to 20			

Note: For additional Ethernet solution specification, contact your Ceragon representative

RF Specifications for 64 QAM Modulation

DS3

Frequency	6L/6H GHz	11 GHz
Standards	ETSI; FCC	ETSI; FCC
Operating Frequency Range (GHz)	5.925-6.425 6.425-7.1	10.7-11.7
RF Channel Spacing (MHz)	10	10
TX Power (dBm)	33	29
RSL Threshold (dBm) at BER=10 ⁻⁶	-77	-77
System Gain (dB)	110	106
ATPC (dB)	Up to 20	

System Specifications	
Capacity (Mbps)	45-nx155
Wayside Channels	E1/T1 and Ethernet
User Channels	V.11 , RS-232 and Ethernet
Engineering Order Wire	Audio channel (64 kbps), selective call (optional)
Interface Modules	STM-1/OC-3: Electrical- CMI/BNC, Optical –SM/SC, SM/MM, DS3: Electrical, Fast Ethernet: 100BaseT, GbE
Protection switching	Space/Frequency Diversity, Hot Stand-by, Hitless, errorless
External Alarms	8 inputs: TTL-level or contact closure to ground. 5 outputs: From C contacts, software configurable
Payload Types	TDM: SDH STM-1, SONET™ OC-3, nxE1/T1/DS3, ATM:ATM over SONET/SDH, IP: Ethernet
System Configurations	1 +0 to 10+0, 1+1 to 9+1

Network Management	
Type	SNMP, in compliance with RFC 1213, RFC 1595 (SONET MIB)
Local or Remote NMS Station	CeraView® and PolyView™ with advanced GUI for Windows2000/2003/XP/Vista and Sun Solaris, integration with HP OpenView
NMS Interface	Ethernet bridge 10Base-T, RS-232 (PPP, SLIP), built-in Ethernet hub
Local Config. & Monitoring	Standard ASCII terminal, serial RS-232
In-Band Management	DCCr, DCCm, Media-specific, proprietary
TMN	NMS functions are in accordance with ITU-T recommendations for TMN
Performance Monitoring	Integral with onboard memory per ITU-T G.828

FibeAir® 3200T



Mechanical/Electrical	
Transceiver Subrack	Height: 480 mm, Width: 440 mm, Depth: 260 mm
Baseband Subrack	Height: 180 mm, Width: 440 mm, Depth: 260 mm
Weight (1+1/ 4+1)	25 kg/ 92 kg
Rack Type	ETSI 300 mm
Max System Power Consumption	1+1: 187W, (286 w 1+1 upgradable) 4+1: 670W
Temperature Range	-5°C to +45°C
Power Supply	-40.5 to -60 VDC

All specifications are subject to change without prior notification. All values are guaranteed.

Ceragon Networks Ltd.

Ceragon Networks Ltd. is a leading provider of high-capacity Carrier Ethernet and TDM wireless solutions for cellular and fixed wireless operators, enterprises and government organizations.

Ceragon's modular FibeAir product family is recognized as the gold standard for backhaul transmission and is the selection of choice for service providers. A scalable, future-proof solution for wireless transport of broadband services, FibeAir operates across multiple frequencies for Ethernet and SONET/SDH protocols, supporting the emerging needs of next-generation networks that are evolving to all-IP based services. It leads the market in IP backhaul, offering a unique, native Ethernet solution that provides efficient, robust connectivity.

Ceragon supports its growing base of more than 200 customers in 85 countries by operating an extensive sales network comprised of multiple offices and numerous partners located around the world. More information is available at www.ceragon.com

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