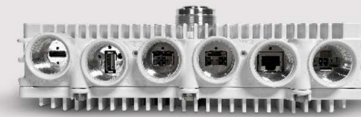


ETHERHAUL™ – 8020FX SPECIFICATIONS [preliminary]

10/20Gbps E-band Radio



Topologies	Point to Point
Frequency / Duplexing	71-76GHz / 81-86GHz, FDD
Channel Bandwidth, Modulation & Adaptive Coding	250, 500, 1,250 & 2,000MHz; BPSK to QAM128; Up to 9 levels of hitless adaptive bandwidth, coding, and modulation – boost gain by over 29dB
Line Rate / Throughput	1+0: ≤10,000Mbps full duplex; 2+0: ≤20,000Mbps full duplex with OMT
System Gain	64 / 93 dB (channel bandwidth = 2,000MHz, maximum capacity / minimum modulation) 75 / 97.5 dB (channel bandwidth = 500MHz, maximum capacity / minimum modulation)
Antenna Options	0.5 ft. (16 cm) - 38dBi antenna gain (not applicable for 2+0 configuration) 1 ft. (31cm) – 43dBi antenna gain (not applicable for 2+0 configuration) 1 ft. plus (38cm) – 46dBi antenna gain 2 ft. (65cm) – 50dBi antenna gain
Interfaces	Direct DC 1x 1GE port: 802.3ab (RJ-45, CAT6A or better) 2x 10GE ports: SFP+ IEEE 802.3-2022 (MMF or SMF) RSSI measurement: voltmeter sockets XPIC signalling: propriety mini-HDMI socket
Ethernet Features	Ethernet transparent bridge with flow control; VLAN support; <i>Jumbo frames</i> ; LLDP Configurable QOS aware forwarding: 8-levels, L2: 802.1p, L3: DSCP; AES128 (H/W option)
Management & Provisioning	In / Out-of-band management; Web GUI or CLI Up to 4x IPv4 or IPv6 address, fixed / DHCP client SNMPv2/3, TACACS+, RADIUS; Zero-touch turn-up
Power Supply	Dual input: PoE++ (4 pairs 802.3at type 2 PD) or Direct DC 42÷57VDC; 55W; Hot standby
Conformance	Radio: USA FCC Part 15.101 & ETSI EN 302 217 EMC: USA FCC 47CFR.part 15 & ETSI EN 301 489 Safety: UL/EN 62368-1 and 60950
Environmental	Operating Temperature: -45° to +55°C (-49° to +131°F); Ingress Protection Rating: IP67



	Part Number	Description
Ordering information	EH-8020FX-ODUH-N-1C2P	EtherHaul™ 8020FX ODU with ANT. port, TX High; Power: DC/PoE; Capacity up to 10Gbps; Ports: 2x SFP+, 1x RJ-45 for management/traffic, 1x XPIC; 2x short All-Weather Shells
	EH-8020FX-ODUL-N-1C2P	EtherHaul™ 8020FX ODU with ANT. port, TX Low; Power: DC/PoE; Capacity up to 10Gbps; Ports: 2x SFP+, 1x RJ-45 for management/traffic, 1x XPIC; 2x short All-Weather Shells
	EH-8020FX-ODUH-AES-N-1C2P	EtherHaul™ 8020FX ODU with AES HW & license, with ANT. port, TX High; Power: DC/PoE; Capacity up to 10Gbps; Ports: 2x SFP+ , 1x RJ-45 for management/traffic, 1x XPIC; 2x short All Weather Shells
	EH-8020FX-ODUL-AES-N-1C2P	EtherHaul™ 8020FX ODU with AES HW & license, with ANT. port, TX Low; Power: DC/PoE; Capacity up to 10Gbps; Ports: 2x SFP+ , 1x RJ-45 for management/traffic, 1x XPIC; 2x short All Weather Shells
	EH-XPIC-Kit	1x70/80GHz OMT; 1xXPIC Signalling Cable; 2x short All-Weather Shells

