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airFiber 60 XG

AF60-XG — 60 GHz PTP Radio Link with 5 GHz Backup

TECHNICAL SPECIFICATIONS

Up to 6 Gbps	4 km	1/10G SFP+	Terragraph
THROUGHPUT (60 GHZ)	MAXIMUM RANGE	OPTICAL PORT	CERTIFICATE

SYSTEM PERFORMANCE AND RADIO FREQUENCY

Maximum Throughput at 60 GHz: 3.8 Gbps / 6 Gbps (with channel bonding)	enabled) 5 GHz: 866.6 Mbps (backup)
Maximum Range	Up to 4 km (depending on link conditions and region)
Main Radio (60 GHz)	Operating Frequency: 57 to 66 GHz (depends on the region) Channel Bandwidth: 2160 MHz / 4320 MHz (with channel bonding) Operating Channels: 58320, 59400, 60480, 61560, 62640, 63720, 64800 MHz Polarization and Beamwidth: Linear vertical | Azimuth: 1.6° (3 dB), Elevation: 1.6° (3 dB)
Backup Radio (5 GHz)	Operating Frequency: US/CA: 5150–5250 / 5725–5850 MHz | Worldwide: 5150–5875 MHz Channel Bandwidth: 20 / 40 / 80 MHz Polarization and Beamwidth: Linear Dual | Azimuth: 5° (3 dB), Elevation: 5° (3 dB)
Encryption / Security	WPA2-PSK (AES)

HARDWARE AND INTERFACES

Processor	Quad-Core ARM® Cortex® A72 @ 1.6 GHz
Memory	2 GB DDR4
Interfaces of Grid	(1) GbE RJ45 Port (1) 1/10G SFP+ Port
Method of Feeding	4-pair Passive PoE (Pins 1,2+; 3,6- and 4,5+; 7,8-) 2-pair passive PoE (4,5+; 7,8-) for 44–54V DC
Power Supply / Voltage	Gigabit PoE Adapter 48V DC, 0.65A (Included) Supported range: 44–54V DC / 22–27V DC
Consumption Maximum	31.2 W
GPS / RF Connections	Integrated GPS / Internal RF Connection

MECHANICAL SPECIFICATIONS

Dimensions	779 x 664 x 383mm (30.68 x 26.14 x 15.06")
Weight	Without assembly: 8.6 kg (19 lb) With assembly: 13 kg (28.7 lb)
Materials of Envelope	UV-stabilized polycarbonate, galvanized steel.
Mounting	Precision alignment kit (Included) Mast compatibility: Ø40 to 80 mm (Ø1.5 to 3.15")
Wind Load	422 N at 200 km/h (94.86 lbf at 125 mph)
Temperature / Humidity	-40 to 55°C (-40 to 131°F) 5 to 95% non-condensing

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SOFTWARE, MANAGEMENT AND CERTIFICATIONS

Operating Mode	Exclusive Point-to-Point (PtP)
Services and Utilities	UISP, Ping Watchdog, NTP client, system logs, tool antenna alignment, discovery utility, speed tests and ping.
Management Application	UISP Web: Version 1.4.3 or later UISP iOS™ / Android™: Version 2.19 or later
LED Indicators	Power On (White/Blue), Ethernet, GPS (Blue with ÿ4 satellites), 60G Link Active, Active 5G Link.
Certifications	FCC, IC, CE, Terragraph | NDAA Compliant: Yes