X10G DATASHEET

10Gbps 70/80GHz Radio – Wireless Fiber Connectivity

The X10G delivers 10Gbps full duplex throughput for demanding networks in the metro, aggregation and trucking applications.

What is the MMW

Advantages:

- ✓ High capacity
- ✓ Interference free
- ✓ Free

Disadvantages:

- ✓ Short distance
- ✓ effected by the rain

Applications for a Wide Range of Vertical Markets

- ✓ Fiber Extension
- ✓ Business Broadband
- ✓ Metro and Aggregation Networks
- ✓ Fiber Backup
- ✓ Smart City Aggregation
- ✓ Mobile Backhaul

Robust & Futureproof

The X10G radio delivers 10Gbps full duplex point-to-point wireless Ethernet connectivity to futureproof your network. Operating over the interference- free 71-76/81-86GHz band, the FDD X10G has additional output power and wider channels, making it easy for providers and enterprises to extend their networks by very quickly adding affordable, high capacity wireless links that are easy to install and maintain.

Carrier Grade Performance Over Wireless

High throughput and layer 1 low latency are combined to deliver fiber like performance. The X10G incorporates adaptive bandwidth coding and modulation for high availability.

Creates Resiliency and Availability

The X10G easily integrates with Ethernet switches or MPLS routers to easily extend or backup any fiber connection while maintaining highest layer 1 transparency with sub-10 micro seconds latency.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a small footprint that alleviates site acquisition. Its light-weight and small size make for a quick and easy installation, while the intuitive web GUI manages local and remote units to enable fast commissioning and configuration.

Based on XTRON's Field Proven Platform

The X10G is the high-capacity 10Gbps evolution of the best-selling X10G series - the world's most deployed millimeter wave radio. Tens of thousands of links have been deployed and are performing reliably in diverse weather conditions all over the globe.

Fast Spectrum Acquisition at Affordable Cost

The E-band spectrum is uncongested, even in rural or dense urban areas. Using a high-gain pencil-beam antenna, guarantees available spectrum anywhere and maximizes spectrum re-use. Additionally, the E-band technology offers low licensing fees and quick licensing processes.

Exceptional Value

The X10G provides fast return on investment (ROI) and minimizes total cost of ownership (TCO). The advanced 10Gbps system delivers an unbeatable price per MB. Its small and light form factor lowers installation costs, increases reliability and reduces site visits. Ultra-fast activation time with the unbeatable reliability

Technical Specifications

Frequency / Duplexing	71-76GHz / 81-86GHz, FDD
Channel Bandwidth, Modulation & Adaptive Rate	500/1,250/2,000MHz Adaptive bandwidth, coding and modulation - boost gain over 20dB
Throughput	10,000Mbps full duplex
Tx Power	BPSK: +18dBm QAM128: +14dBm
Receive Signal Level (RSL)	RSL @ BPSK = -75dBm RSL @ QAM128 = -50dBm
Reach	1.7/2.3 mile @ 99.95% availability (rain zone K/E, 2ft ANT.)
Interfaces	1 combo 10GE port: 802.3bz (RJ-45, copper) or SFP+ (MMF or SMF) 1GE port: 802.3ab (RJ-45, copper)
Power Supply	PoE+ or 36÷57VDC; 50W
Management & Provisioning	In / Out-of-band management Web GUI or CLI SNMPv2/3, TACACS+, RADIUS Zero-touch turn-up
L2, Traffic Management	Transparent Bridge, VLAN encapsulation QOS Aware Traffic Management
Security	AES (factory option)
Timing	Synchronous Ethernet and 1588v2 TC (factory option)
Conformance	Radio: USA FCC Part 15.101 & ETSI EN 302 217; EMC: USA FCC 47CFR.part 15 & ETSI EN 301 489; Safety UL/EN 60950
Environmental	Operating Temperature: -45° to +55°C(-49° to +131°F) Ingress Protection Rating: IP67
Dimensions	ODU + 0.5ft antenna: 9.17" x 8.11" x 5.55" (23.3cm x 20.6cm x 14.1cm) ODU + 1ft antenna (Dia. x Depth): 12.6" x 4.3" (32cm x 13cm) ODU + 2ft antenna (Dia. x Depth): 25.6" x 15.35" (65cm x 37cm)
Weight	ODU + 0.5ft antenna: 9.2lbs. (4.1kg) ODU + 1ft. antenna: 9.9lbs. (4.4kg) ODU + 2ft. antenna: 24.3lbs (10.9kg)