

X10 Anywhere Network Node

The Smart Choice of PtP Bridge

Cost-efficient | Optimal Network Capacity | Ultra-high Reliable



X10 Anywhere Network Node (A-NN) is a high-performance single 5 GHz radio wireless backhaul unit designed for last mile extension and cost efficient PtP link deployment. The X10 may operate with other multiple radios backhaul unit to build a daisy chain or a mesh network, and just a pair of X10 nodes simply offers a high speed wireless PtP bridge by using its built-in directional antenna!

Main Features

- 1 x 5 GHz
- Built-in antenna
- PtP and PtMP
- 400 Mbps real data throughput
- 20/40/80 MHz channel
- IP 67 weatherproof 6kV surge protection

Main Benefits and Applications

- **Optimal Network Capacity** Guaranteed network performance of true throughput and data transmission speed as the entire link's capacity is fully reserved between the two network points.
- **Enhanced Reliability and Security** Single radio in one network path enabling maximum data transmission from both ends.
- **Effective Internet Connectivity** Extended network coverage by easy-to-deploy PtP link enabling instant internet access in remote/temporary areas
- **Constant Communication with Excellent Transmission Output** best suit for data transmission in audiovisual form such as video and audio conferencing, for high quality output.
- **Ultra-rapid deployment** PtP connection could be set up in an hour (a day)
- **Cost Efficient PtP Networking** significantly save money and time comparing to costly fibre deployment and maintenance

Best choice for Point-to-Point links to extend network connectivity for demanding mission-critical applications in video surveillance, network audio, IT/IS systems, and more.

Deployment Architecture



X10 Anywhere Network Node Specifications

Wireless	
Operating Frequency ¹	5.150 - 5.350 GHz 5.470 - 5.850 GHz
Modulation	OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM DSSS: DBPSK, DQPSK, CCK
No. of Spatial Stream	2x2: 2 MIMO
Channel Bandwidth	20/40/80 MHz Channel
Data Rate	173 Mbps (20MHz); 400 Mbps (40 MHz); 867 Mbps (80 MHz)
Receive Sensitivity	-91 dBm (20 MHz); -88 dBm (40 MHz); -85 dBm (80 MHz)
Transmit Power	27 dBm (Max)
Antenna	
Type	Built-in 5 GHz
Gain	19 dBi
Polarization	Vertical & Horizontal
Horizontal Beamwidth	17°
Vertical Beamwidth	17°
VSWR	1.8 (Max.)
Front-to-back Ratio	-25 dB (Min.)
Isolation	35 dB (Min.)
Network	
Topology	Point-to-Point (PtP), Point-to-Multipoint (PtMP)
Redundancy	Flow-based Routing, Multiple Drop-off Point
Path Selection	Bandwidth-based metrics load balancing
Traffic Optimization	BUM Traffic Management
Features	End-to-End Layer 2 Transparent, VLAN 802.11Q pass-through
Security	
Link Encryption	TKIP, 128-bit AES
Client MAC Access Control	Whitelist ² , Blacklist
Neighbor MAC Access Control	Whitelist, Blacklist

Management	
User Interface	Anywhere Node Manager (A-NM) for A-OS
Support	Remote Firmware Upgrade, SNMP v1/v2c ² , MIB support ²
Hardware	
No. of Radio	1x5 GHz Radio
Network Interface	1xGE & PoE Port
LED	RUN; LAN; RADIO 0; RADIO 1
Power Supply	802.3at PoE Injector
Power Consumption	25 W (Max.)
Antenna Movement	±30° Up/Down-tilt
MTBF	350,000 hours (50°C)
Physical Characteristics	
Dimensions	270 × 270 × 80 mm (w/o Mounting)
Weight	1.86 kg (Net w/o Mounting); 2.39 kg (Net w/ Mounting); 2.66 kg (Gross)
Mounting	Pole Mounting (ø40 to ø52 mm)
Environmental	
Temperature	-40°C to 65°C (Operating)
Humidity	5% to 95 % Non-condensing
Elevations	86 to 106 kPa
Wind Loading	256 km/h (Max.)
Weatherproof	IP67, 6 kV Common Mode Surge Protection
Certification	
FCC, RCM, OFCA	
Standard Warranty	
First year free limited hardware warranty and firmware upgrade. The 1/3/5-year extended warranties are available under specific purchase terms and conditions.	
Ordering Information	
Part Number	GE.AP-X100-00
Description	X10 Anywhere Network Node

¹operating frequency, transmit power and channel bandwidth vary by country/region settings

²available in the future updates

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Version: 07 Apr 2021