

X32e Anywhere Network Node



X32e Anywhere Network Node is an industrial-grade dual 5 GHz radios wireless backhaul unit designed for flexible and expandable deployments regardless of physical constraints. Our Connectivity Technology breaks the traditional hopping limitation of wireless networks by tackling the multi-hop bandwidth degradation, enables X32e to extend connectivity to the locations where extensive fiber optic cabling is unfeasible due to a tight timescale. With the built-in selectable hardware RF filter, X32e provides interference isolation for delivering the highest end-to-end network throughput.

Anywhere Networks' not only provides absolute security through 128-bit AES link encryption and 256-bit AES end-to-end encryption but also optimizes client traffic management with the flow-based encapsulation. Packets are encrypted and encapsulated starting from the entrance point of the mesh, through travelling the tunnels, then decapsulated and decrypted at the exit points of the mesh. The intermediate nodes act as flow switching nodes without looking into the payloads but based on the encapsulation header to route to the destination. In this approach, we provide enhanced security, capacity and greater transparency at higher level applications.

Ultra high throughput wireless surveillance backhauling applications

- Up to 1,000 Mbps throughput
- 802.3af PoE output port

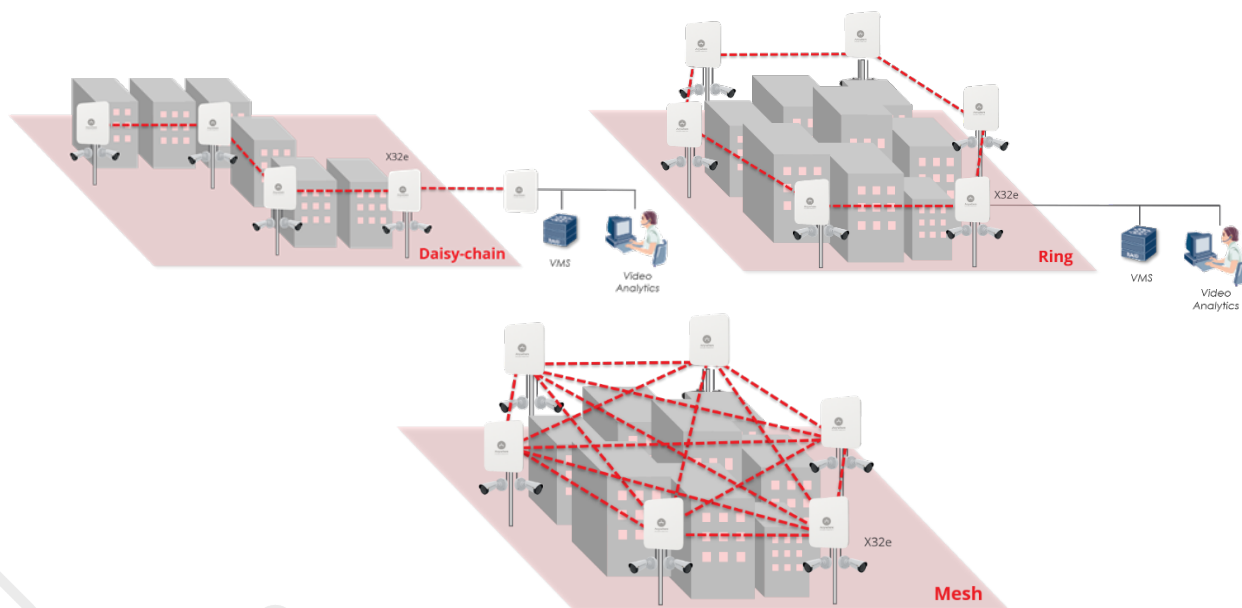
Over 20 hops backhauling with deployment flexibility

- Selectable hardware RF filter
- 2x5 GHz radio

Industrial-grade hardware design

- IP 67 weatherproof
- 6kV surge protection

Deployment Architecture



X32e Anywhere Network Node

Specifications

Wireless	
Operating Frequency ¹	4.940 - 4.990 GHz 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 ¹	20/40/80/160 ² MHz Channel
Data Rate	173 Mbps (20MHz); 400 Mbps (40 MHz); 867 Mbps (80 MHz); 1733 Mbps (160 MHz)
Receive Sensitivity	-87 dBm (20 MHz); -84 dBm (40 MHz); -81 dBm (80 MHz); -78 dBm (160 MHz)
Transmit Power ¹	21 dBm (Max)
Features	Interference mitigation by selectable RF filter, Spectrum Analyzer
Antenna	
Type	External 5 GHz
Gain	Optional Antennas: 5 GHz 19/23 dBi 2xN-female Panel; More Options on Request
Network	
Topology	Point-to-Point (PtP), Point-to-Multipoint (PtMP), Daisy-chain, Ring, and Mesh
Redundancy	Flow-based routing, Multiple Drop-off Point, Bonded Link
Mobility	Mobile Mode and Static Mode
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	128-bit AES
End-to-end Encryption	256-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	2x5 GHz Radio
Network Interface	1xGE & PoE Input Port; 1xGE & PoE Output Port (802.3af)
LED	PWR; ETH0; ETH1; PD; RADIO 0; RADIO 1
Power Supply	Proprietary High Power PoE Injector (60W)
Power Consumption	34 W (Max.)
Antenna Movement	±30° Up/Down-tilt
MTBF	350,000 hours (50 °C)
Physical Characteristics	
Dimensions	300×260×90 mm (w/ Bracket, w/o Mounting)
Weight	2.8 kg (Net w/o Mounting); 3.8 kg (Net w/ Mounting); 4.6 kg (Gross)
Mounting	Pole (ø30 to ø60 mm) and Wall Mounting
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, CE, 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-X32E-00
Description	X32e Dual 5GHz MeshRanger

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

²available in the future updates

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