



X32e Dual 5GHz A-NN ICA Technology

Anywhere



X32e is an industrial-grade dual 5 GHz radios wireless backhaul unit designed for flexible and expandable deployments regardless of physical constraints. Thanks to our Intelligent Connectivity Anywhere (ICA) technology, A-NN X32e extends connectivity to the locations where extensive fiber optic cabling is unfeasible due to a tight timescale.

The ICA technology breaks the traditional hopping limitation of wireless networks by tackling the multi-hop bandwidth degradation. With the built-in selectable hardware RF filter, it provides interference isolation for delivering the highest end-to-end network throughput.

Ultra high throughput wireless surveillance backhauling applications

- Up to 1,000 Mbps throughput¹
- 802.3af PoE output port

Greater than 20 hops backhauling with deployment flexibility

- Selectable hardware RF filter
- 2 × 5 GHz radio, 1 × 2.4 / 5 GHz radio

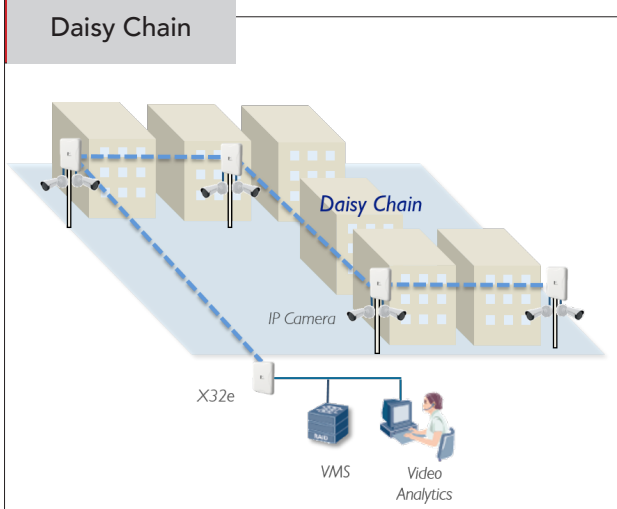
Industrial-grade hardware design

- IP 67 weatherproof
- 6kV surge protection

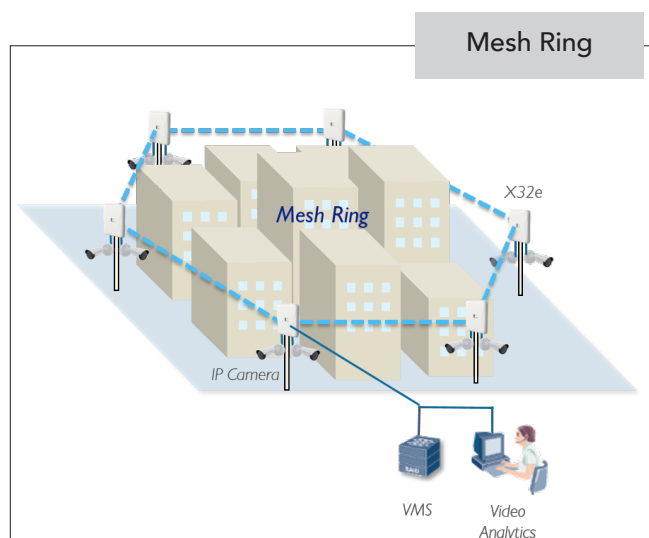
¹ Lab-tested in controlled environment using 160MHz channel bandwidth based on PTOS 2.4 firmware

Deployment Architecture

Daisy Chain



Mesh Ring



X32e Dual 5GHz Anywhere Network Node

Specifications

Wireless

Operating Frequency (Country-dependent)	5.150 - 5.350 GHz 5.470 - 5.850 GHz
Modulation Techniques	OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM DSSS: DBPSK, DQPSK, CCK
No. of Spatial Stream	2x2: 2 MIMO, 20/40/80/160 MHz Channel ²
Receive Sensitivity	-87 dBm (20 MHz); -84dBm (40 MHz); -81 dBm (80 MHz); -78 dBm (160 MHz) ²
Transmit Power (Country-dependent)	21 dBm (Max.)
Features	Interference mitigation by selectable RF filter

Antenna

Type	External 5 GHz
Gain	Optional Antennas: 5 GHz 19/23 dBi 2 x N-female Panel, More Options on Request

Networking

Available features vary with different software version.

	PTOS	aOS
Topology	PtP (Daisy Chain & Ring)	PtP (Daisy Chain & Ring), PtMP, Mesh
Redundancy	STP-based	Flow-based routing
Path Selection	STP-based	Bandwidth-based metrics load balancing
Traffic Optimization	-	BUM traffic management
Features	End-to-End Layer 2 Transparent, VLAN 802.11Q pass-through	

Security

	PTOS	aOS
Neighbor MAC Access Control	White list	White list ³ , black list ³
Link Encryption	128-bit AES	128-bit AES
End-to-end Encryption	-	256-bit AES ³

Authentication	Open system, Shared key, WPA/ WPA-PSK, WPA2/ WPA2-PSK, 802.1x (EAP-PEAP/ TLS/ TTLS/ SIM/ AKA)	WPA2-PSK
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Management

	PTOS	aOS
User Interface	SmartMoment, MeshProvision Server (Require Separate Purchase)	Anywhere Node Manager
Support	Remote Firmware Upgrade, SNMP v1/v2c, MIB support	Remote Firmware Upgrade, SNMP v1/v2c ³ , MIB support ³

Hardware

No. of Radio	2 x 5 GHz Radio
Network Interface	1 x GE & PoE Input Port; 1 x GE & PoE Output Port (802.3af)
LED	PWR; ETH0; ETH1; PD; RADIO 0; RADIO 1
Power Supply	Proprietary High Power PoE Injector (60 W)
Power Consumption	34 W (Max.)
Antenna Movement	±30° Up/Down-tilt
MTBF	350,000 hours (50°C)

Physical Characteristics

Dimensions	300 x 260 x 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	265 km/h (Max.)
Weatherproof	IP67, 6 kV Common Mode Surge Protection

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