



**Anywhere**  
INTELLIGENT CONNECTIVITY

## X30 Series Tri 5GHz A-NN ICA Technology



X30 series is an industrial-grade 5 GHz tri-radio wireless backhaul unit designed for flexible and expandable deployments regardless of physical constraints. Thanks to our Intelligent Connectivity Anywhere (ICA) technology, A-NN X30 series 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 throughput<sup>1</sup>
- 802.3af PoE output port

Greater than 20 hops backhauling with  
deployment flexibility

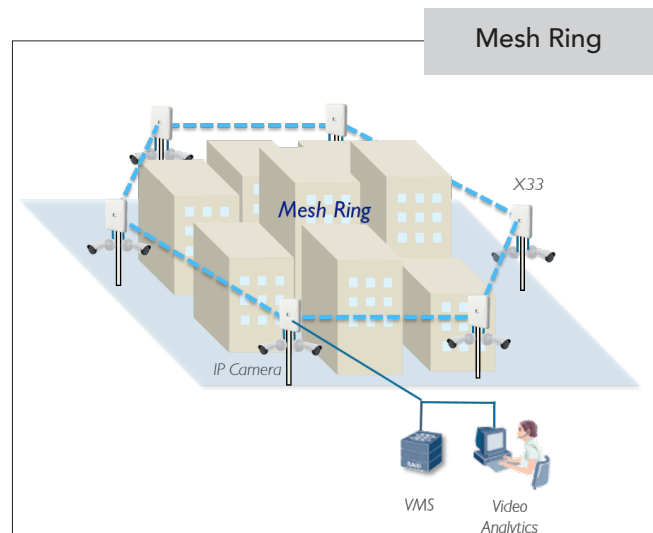
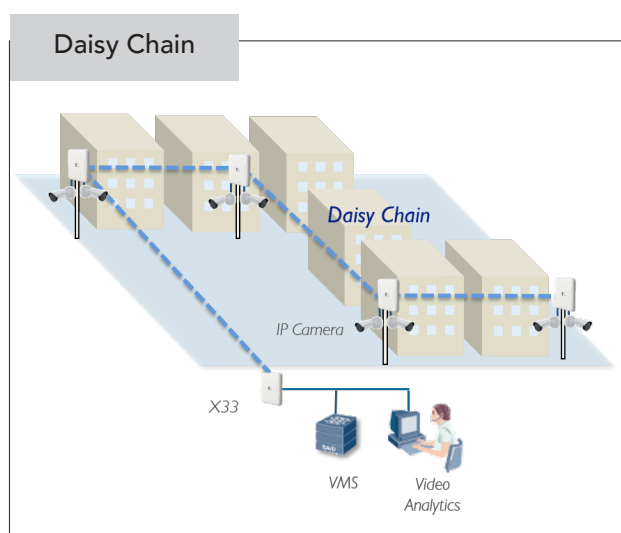
- Selectable hardware RF filter
- 2 × 5 GHz radio, 1 × 2.4 / 5 GHz radio

Industrial-grade hardware design

- IP 67 weatherproof
- 6kV surge protection

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

## Deployment Architecture



# X30 Series Tri-5GHz Anywhere network Node (A-NN)

## Specifications

### Wireless

Operating Frequency (Country-dependent)	2.400 - 2.4835 GHz 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
Receive Sensitivity	Radio 0/1 -87 dBm (20 MHz); -84 dBm (40 MHz); -81 dBm (80 MHz); -78 dBm (160 MHz) Radio 2 -91 dBm (20 MHz); -88 dBm (40 MHz); -85 dBm (80 MHz); -82 dBm (160 MHz and 80+80 MHz)
Transmit Power (Country-dependent)	Radio 0/1 5 GHz 21 dBm (Max.) Radio 2 2.4/5 GHz 23 dBm (Max.)
Features	Interference mitigation by selectable RF filter

### Antenna

Connected to	Radio 0	Radio 1	Radio 2
Type	Model X33 Built-in 5 GHz	External 5 GHz	External 2.4/5 GHz
	Model X32 Built-in 5 GHz	External 5 GHz	N/A
	Model X32e External 5 GHz	External 5 GHz	N/A
Gain	20 dBi	Optional	Optional
Polarization	Vertical & Horizontal	Antennas: 5 GHz 19 dBi 2 x N-female Panel, More Options on Request	2.4/5 GHz 5/7 dBi Dual-band N-male Omni; 5 GHz 19 dBi 2 x N-female Panel, More Options on Request
Horizontal Beamwidth	17°		
Vertical Beamwidth	17°		
VSWR	1.8 (Max.)		
Front-to-back Ratio	-30 dB (Min.)		
Isolation	35 dB (Min.)		

### Networking

ICA Technology	Designed for Multi-hop High Throughput Wireless Surveillance and Backhauling
Topology	Daisy Chain, Mesh Ring
Redundancy	STP
Features	End-to-End Layer 2 Transparent, VLAN Trunking

### Security

Mesh Link	2-tier Irreversible Key Generation Algorithm, Enhanced 3-factor (Mesh ID, Mesh Key and Static Key) Authentication Mechanism, MAC-based Access Control, Unique Per-link Packet Encryption
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Authentication	Open system, Shared key, WPA/ WPA-PSK, WPA2/ WPA2-PSK, 802.1x (EAP-PEAP/ TLS/ TTLS/ SIM/ AKA)
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Encryption Protocol	TKIP, 128-bit AES
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### Management

Built-in Web User Interface	SmartMoment
Support	Remote Firmware Upgrade, SNMP v1/ v2c, MIB support

### Hardware

	Model X33	Model X32	Model X32e
No. of Radio	2 x 5 GHz Radio, 1 x 2.4/5 GHz 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; RADIO 2		
Power Supply	Proprietary High Power PoE Injector (60 W)		
Power Consumption	38 W (Max.)	34 W (Max.)	
Antenna Movement	±30° Up/Down-tilt		
MTBF	350,000 hours (50°C)		

### Physical Characteristics

	Model X33	Model X32	Model X32e
Dimensions	305 x 305 x 111 mm (w/ Bracket, w/o Mounting)		300 x 260 x 90 mm (w/ Bracket, w/o Mounting)
Weight	3.5 kg (Net w/o Mounting); 4.5 kg (Net w/ Mounting); 5.4 kg (Gross)		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

### Certification

FCC, CE, RCM, OFCA

### Warranty

First year free limited hardware warranty and firmware upgrade

### Ordering Information

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