



**Anywhere**

INTELLIGENT CONNECTIVITY

# X22e Dual 5GHz Anywhere Node ICA Technology



X22e is a high-performance dual 5 GHz radios wireless backhaul unit designed for flexible and expandable deployment regardless of physical constraints. Thanks to our Intelligent Connectivity Anywhere (ICA) technology, A-NN X22e 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 ICA technology, the X22e Anywhere Node supports over 10 hops and up to 600 Mbps world's leading end-to-end ring topology backhauling speed.

Ultra high throughput wireless surveillance backhauling

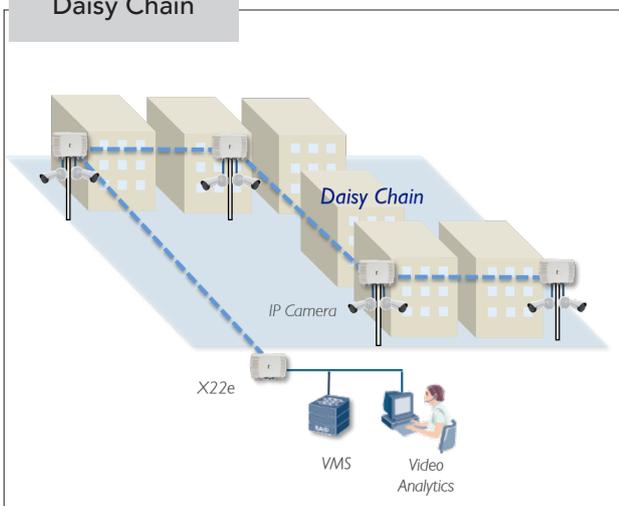
- Up to 600 Mbps throughput<sup>1</sup>
- Train connectivity applications

Greater than 10 hops backhauling

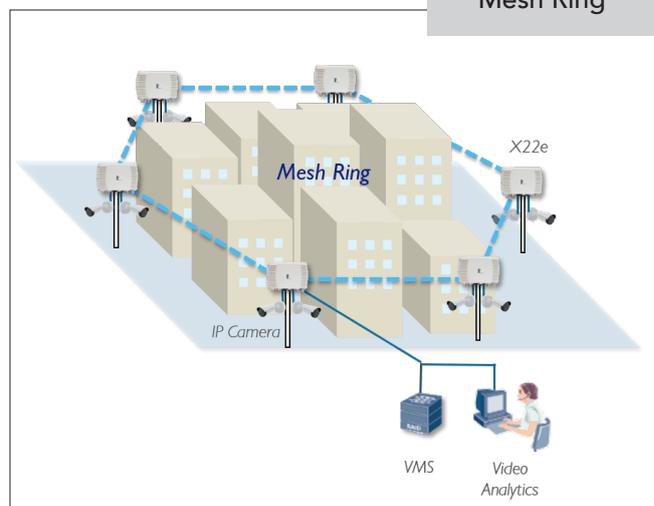
- 20/40/80 MHz channel
- 2 x 5 GHz radio, ext. antenna ports

## Deployment Architecture

Daisy Chain



Mesh Ring



# X22e Dual 5GHz MeshRanger

## 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 MHz Channel
Receive Sensitivity	-91 dBm (20 MHz); -88 dBm (40 MHz); -85 dBm (80 MHz)
Transmit Power (Country-dependent)	27 dBm (Max.)

### Antenna

Type	External 5 GHz
Gain	Optional Antennas: 5 GHz 19/23 dBi Panel; More Options on Request

### 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
Authentication	Open System, Shared Key, WPA/WPA-PSK, WPA2/WPA2-PSK, 802.1x(EAP-PEAP/TLS/TTLS/SIM/AKA), MAC address
Encryption Protocol	TKIP, 128-bit AES

### Management

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

### Hardware

No. of Radio	2 x 5 GHz Radio
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Network Interface	1xGE & PoE Port
LED	PWR; ETH; RADIO 0; RADIO 1
Power Supply	802.3at PoE Injector, DC 12V
Power Consumption	25 W (Max.)
MTBF	350,000 hours (50°C)

### Physical Characteristics

Dimensions	221x162x47 mm (w/o Mounting)
Weight	1.08 kg (Net w/o Mounting); 1.49 kg (Gross)
Mounting	Pole and Wall Mounting

### Environmental

Temperature	-40°C to 65°C (Operating)
Humidity	5% to 95 % Non-condensing
Elevations	86 to 106 kPa
Wind Loading	216 km/h (Max.)
Weatherproof	IP67, IEC 60529, IEC 60950-1 6 kV Common Mode Surge Protection Salt Mist EN 50155 Part 12.2.10

### Certification

FCC, CE, RCM, OFCA
EMC Rolling Stock Apparatus: EN 50121-3-2
Environment, Safety and EMC: EN 50155
Vibration and Shock: EN 61373 (Class 1B), EN 50155 Part 12.2.11
Fire: EN 45545-2 (R25) Level 1 to 3, EN 60950-2-11

### Warranty

First year free limited hardware warranty and firmware upgrade
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### Ordering Information

Part Number	Description
GE.AP-X22E-00	X22e Dual 5GHz MeshRanger

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