X20 Dual 5GHz Anywhere Node
ICA Technology

Anywhere
INTELLIGENT CONNECTIVITY

X20 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 X20 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 X20 Anywhere Node supports over 10 hops and up to 600 Mbps world's leading end-to-end ring topology backhauling speed.
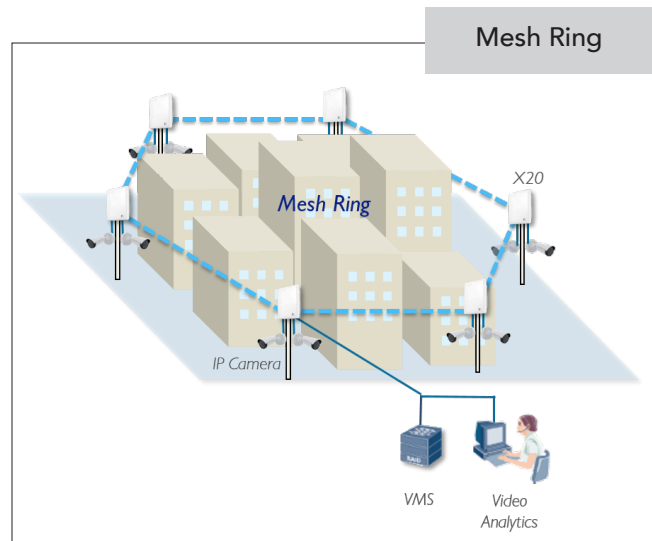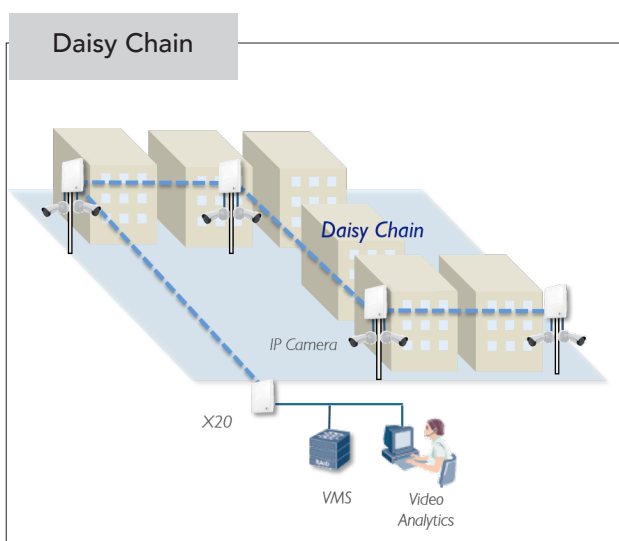
Ultra high throughput wireless surveillance backhauling	• Up to 600 Mbps throughput[1] • IP 67 weatherproof
Greater than 10 hops backhauling	• 20/40/80 MHz channel • 2 × 5 GHz radio

Deployment Architecture

Daisy Chain

Mesh Ring

X20 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	2×2: 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

Connected to	Radio 0	Radio 1
Type	Built-in 5 GHz	External 5 GHz
Gain	19 dBi	Optional Antennas: 5 GHz 19 dBi Panel; More Options on Request
Polarization	Vertical & Horizontal	
Horizontal Beamwidth	17˚	
Vertical Beandwidth	17˚	
VSWR	1.8 (Max.)	
Front-to-back Ratio	-25 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

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 × 5 GHz Radio
Network Interface	1×GE & PoE Port
LED	RUN; LAN; RADIO 0; RADIO 1
Power Supply	802.3at PoE Injector
Power Consumption	25 W (Max.)
Antenna Movement	0˚ to 30˚ Down-tilt (or 0˚ to 30˚ Up-tilt by Reversed Mounting)
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	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

Part Number	Description
GE.AP-X200-00	X20 Dual 5GHz MeshRanger

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