Anywhere

X22e Anywhere Network Node

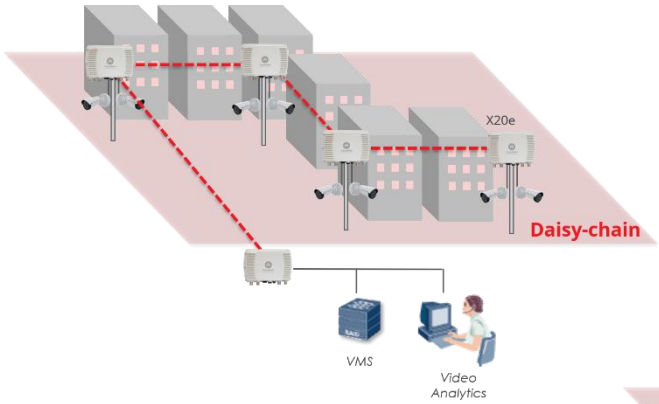
X22e Anywhere Network Node is a high-performance dual 5 GHz radios wireless backhaul unit designed for seamless network connectivity and applications in dynamic and high-speed mobile environment, enabling high throughput, low latency, and no packet loss.

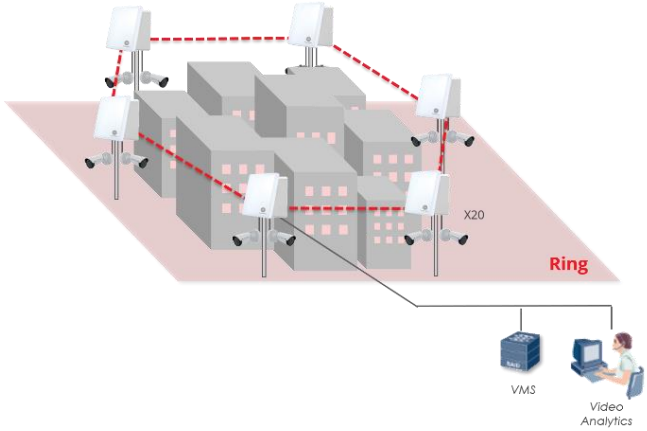
Our Connectivity Technology not only extends connectivity to the locations where extensive fiber optic cabling is not feasible due to a tight timescale, but also breaks the traditional hopping limitation of wireless networks by tackling the multi-hop bandwidth degradation.

X22e supports over 10 hops and up to 600 Mbps world's leading end-to-end ring topology backhauling speed. Plus, low power supply requirement and PoE options allow for simple, flexible deployment and convenient installation. X22e is also EN 50155 and 50121 rolling stock certified for trains make it ideal for railway and mobile vehicles applications.

Ultra high throughput wireless surveillance backhauling	Greater than 10 hops backhauling
• Up to 600 Mbps throughput • Adapted for mobile environments such as railways, trains, buses or police vehicles.	• 20/40/80 MHz channel • 2 × 5 GHz radio, ext. antenna ports

Deployment Architecture





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Specifications

Wireless	
Operating Frequency[1]	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	2×2: 2 MIMO
Channel Bandwidth[1]	20/40/80 MHz Channel
Data Rate	173 Mbps (20MHz); 400 Mbps (40 MHz); 867 Mbps (80 MHz)
Receive Sensitivity	-91 dBm (20 MHz); -88 dBm (40 MHz); -85 dBm (80 MHz)
Transmit Power[1]	27 dBm (Max)
Features	Spectrum Scan, Antenna Alignment
Antenna	
Type	External 5 GHz
Gain	Optional Antennas: 5 GHz 19/23 dBi Panel; More Options on Request
Network	
Topology	Point-to-Point (PtP), Point-to-Multipoint (PtMP), Daisy-chain and Ring
Redundancy	Flow-based Routing, Multiple Drop-off Point, Bonded Link
Mobility	Mobile Mode
Path Selection	Bandwidth-based Metrics Load Balancing, Traffic Load Aware Load Balancing
Traffic Optimization	BUM Traffic Management
Features	End-to-End Layer 2 Transparent, VLAN 802.11Q Pass-through, Node Recovery
Security	
Link Encryption	128-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, Network Time Sync, SNMP v1/v2c[2], MIB support[2]
Hardware	
No. of Radio	2×5 GHz Radio
Network Interface	1×GE & 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	221×162×47 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, CMIIT, NCC, KC, 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	
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-X22E-00
Description	X22e Anywhere Network Node

[1]operating frequency, transmit power and channel bandwidth vary by country/region settings
[2]available in the future updates

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