

X32 Anywhere Network Node



X32 Anywhere Network Node is an industrial-grade 5 GHz dual-radio wireless backhaul unit designed for flexible and expandable deployments regardless of physical constraints. Our Connectivity Technology breaks the traditional hopping limitation of wireless networks by tackling the multi-hop bandwidth degradation, enable X32 to extend connectivity to the locations where extensive fiber optic cabling is unfeasible due to a tight timescale. With the built-in selectable hardware RF filter, X32 provides interference isolation for delivering the highest end-to-end network throughput.

Anywhere Networks' not only provides absolute security through 128-bit AES link encryption and 256-bit AES end-to-end encryption but also optimizes client traffic management with the flow-based encapsulation. Packets are encrypted and encapsulated starting from the entrance point of the mesh, through travelling the tunnels, then decapsulated and decrypted at the exit points of the mesh. The intermediate nodes act as flow switching nodes without looking into the payloads but based on the encapsulation header to route to the destination. In this approach, we provide enhanced security, capacity and greater transparency at higher level applications.

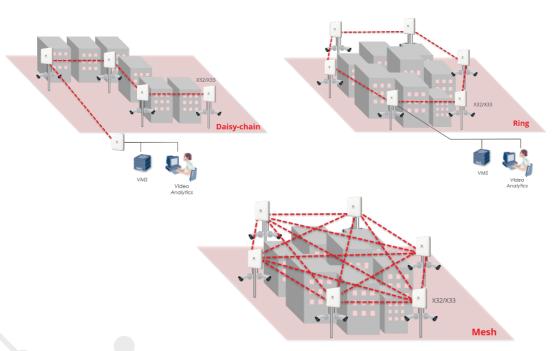
Ultra high throughput wireless surveillance backhauling applications

Up to 1,000 Mbps throughput802.3af PoE output port Over 20 hops backhauling with deployment flexibility

•Selectable hardware RF filter •2×5 GHz radio Industrial-grade hardware design

- IP 67 weatherproof
- •6kV surge protection

Deployment Architecture





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Specifications

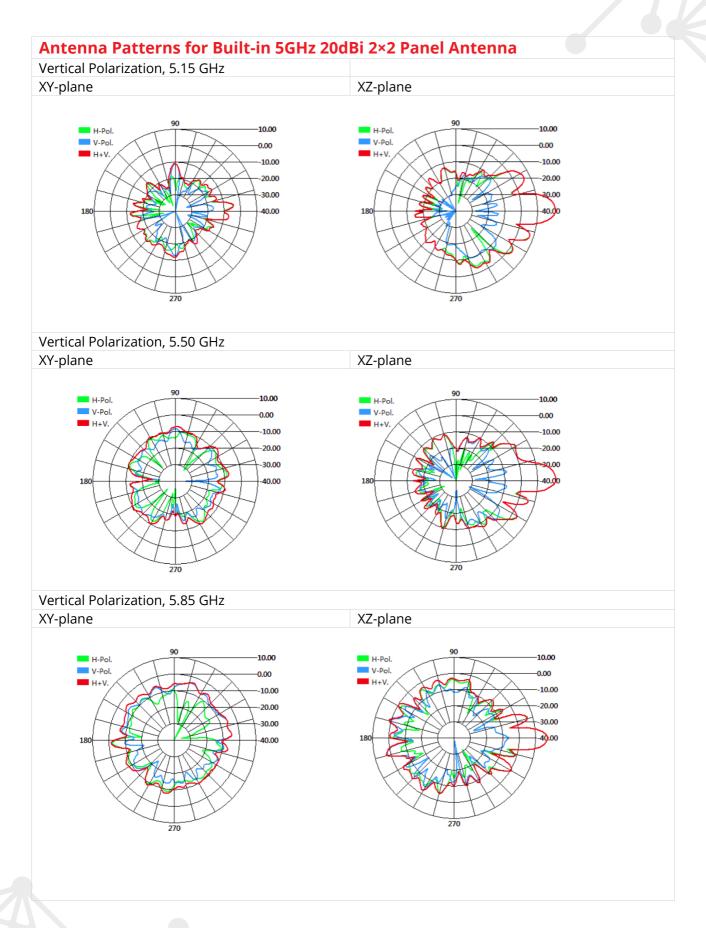
Wireless		
Operating Frequency ¹	4.940 - 4.990 GI	Hz
. ,	5.150 - 5.350 GHz	
	5.470 - 5.850 GHz	
Modulation	OFDM: BPSK, QPSK,16QAM,	
	64QAM,256QAM	
	DSSS: DBPSK, DQPSK, CCK	
No. of Spatial Stream	2×2: 2 MIMO	
Channel Bandwidth ¹	20/40/80/160 ² MHz Channel	
Data Rate	173 Mbps (20MHz); 400 Mbps	
	(40 MHz); 867 Mbps (80 MHz);	
	1733 Mbps (160 MHz)	
Receive Sensitivity	-87 dBm (20 MHz); -84 dBm (40	
	MHz); -81 dBm (80 MHz);	
	-78 dBm (160 MHz)	
Transmit Power ¹	21 dBm (Max)	
Features	Interference mitigation by	
	selectable RF filter, Spectrum	
	Analyzer	
Antenna		
Connected To	Radio 0	Radio 1
Туре	Built-in 5 GHz	External 5 GHz
Gain	20 dBi	Optional
Polarization	Vertical &	Antennas: 5
	Horizontal	GHz 19 dBi
Horizontal Beamwidth	17°	2xN-female
Vertical Beamwidth	17°	Panel; More
VSWR	1.8 (Max.)	Options on
Front-to-back Radio	-30 dB (Min.)	Request
Isolation	35 dB (Min.)	
Network		
Topology	Point-to-Point (PtP), Point-to-	
	Multipoint (PtMP), Daisy-chain,	
	Ring, and Mesh	
Redundancy	Flow-based routing, Multiple	
	Drop-off Point, Bonded Link	
Mobility	Mobile Mode and Static Mode	
Path Selection	Bandwidth-based metrics load	
Tuestie Outline ::	balancing	
Traffic Optimization	BUM Traffic Management	
Features		er 2 Transparent,
Cammita	VLAN 802.11Q p	bass-through
Security	420 hit 455	
Link Encryption	128-bit AES	
End-to-end Encryption	256-bit AES	
Client MAC Access	Whitelist ² , Blacklist	
Control	14/l-14-11 : 51 11	*
Neighbor MAC Access	Whitelist, Blackl	IST
Control		

Management		
User Interface	Anywhere Node Manager (A-NM) for A-OS	
Support	Remote Firmware Upgrade,	
	SNMP v1/v2c², MIB support²	
Hardware		
No. of Radio	2×5 GHz Radio	
Network	1xGE & PoE Input Port; 1xGE & PoE Outpι	
Interface	Port (802.3af)	
LED	PWR; ETH0; ETH1; PD; RADIO 0; RADIO 1	
Power Supply	Proprietary High Power PoE Injector (60W	
Power	34 W (Max.)	
Consumption		
Antenna	±30° Up/Down-tilt	
Movement		
MTBF	350,000 hours (50°C)	
Physical Cha	racteristics	
Dimensions	305×305×111 mm	
	(w/ Bracket, w/o Mounting)	
Weight	3.5 kg (Net w/o Mounting);	
	4.5 kg (Net w/ Mounting);	
Mounting	Pole (ø30 to ø60 mm) and Wall Mounting	
Environment	al	
Temperature	-40°C to 65°C (Operating)	
Humidity	5% to 95 % Non-condensing	
Elevations	86 to 106 kPa	
Wind Loading	256 km/h (Max.)	
Weatherproof	IP67, 6 kV Common Mode Surge	
•	Protection	
Certification		
FCC, CE, RCM, C	PCA	
Standard Wa	rranty	
	mited hardware warranty and firmware	
	/3/5-year extended warranties are available	
	ourchase terms and conditions.	
Ordering Info	ormation	
Part Number	GE.AP-X320-00	

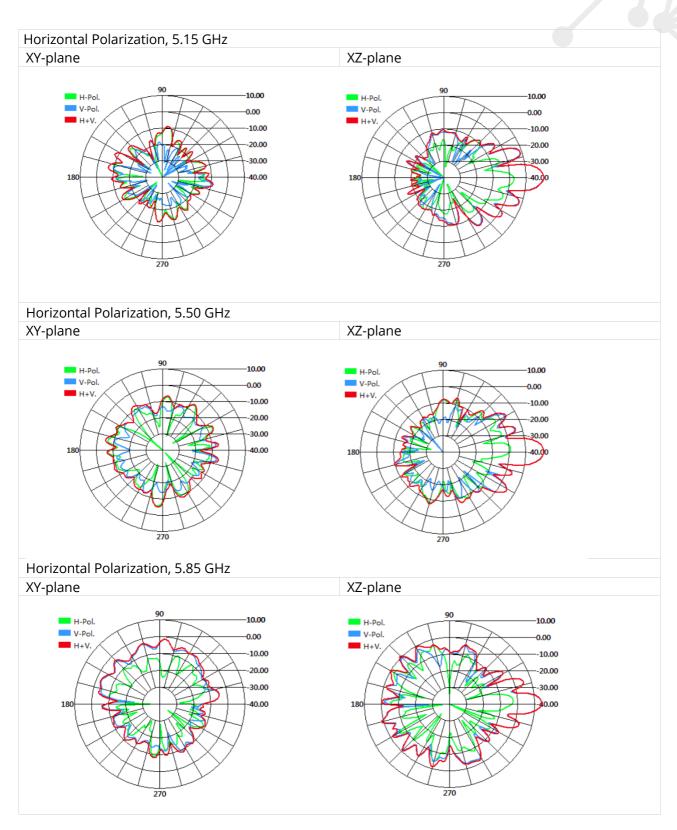
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 $^{^1}$ operating frequency, transmit power and channel bandwidth vary by country/region settings 2 available in the future updates









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