

## X33 Anywhere Network Node



X33 Anywhere Network Node is an industrial-grade 5 GHz tri-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 X33 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, it 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

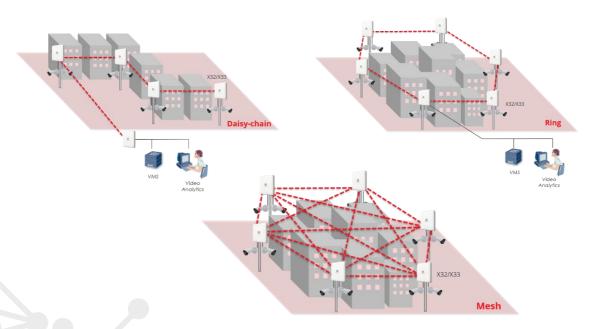
Up to 1,000 Mbps throughput802.3af PoE output port Over 20 hops backhauling with deployment flexibility

Selectable hardware RF filter
 2×5 GHz radio
 1x2.4/5 GHz radio

Industrial-grade hardware design

IP 67 weatherproof6kV surge protection

## **Deployment Architecture**





## **X33 Anywhere Network Node**

## **Specifications**

Wireless				
Wireless	2 400 2 40	25.611		
Operating	2.400 - 2.4835 GHz;			
Frequency <sup>1</sup>	5.150 - 5.350 GHz; 5.470 - 5.850 GHz			
Modulation	OFDM: BPSK, QPSK,16QAM,			
	64QAM,256	-	14	
		K, DQPSK, CC	K	
No. of Spatial Stream	2×2: 2 MIMO			
Channel Bandwidth <sup>1</sup>	20/40/80/160 <sup>2</sup> MHz Channel 173 Mbps (20MHz); 400 Mbps (40			
Data Rate			•	
		1bps (80 MHz)	); 1733 Mbps	
	(160 MHz)			
Receive Sensitivity	Radio 0/1 -87 dBm (20 MHz); -8			
			Hz); -81 dBm	
			'8 dBm (160	
		MHz)		
	Radio 2	-91 dBm (20		
			Hz); -85 dBm	
		' "	32 dBm (160	
T 1.5	<b>D</b> II	MHz and 80		
Transmit Power <sup>1</sup>	Radio 0/1	5 GHz, 21 d		
	Radio 2		23 dBm (Max.)	
Features		Mitigation by	•	
		ectrum Scan,	Antenna	
	Alignment			
Antenna				
Connected To	Radio 0	Radio 1	Radio 2	
Туре	Built-in 5	External 5	External	
	GHz	GHz	2.4/5 GHz	
Gain	20 dBi	Optional	Optional	
Polarization	Vertical &	Antennas:	Antennas:	
	Horizontal	5 GHz 19	2.4/5 GHz	
Horizontal	17°	dBi 2×N-	5/7 dBi	
Beamwidth		female	Dual-band	
Vertical Beamwidth	17°	Panel,	N-male	
VSWR	1.8 (Max.)	More	Omni; 5	
Front-to-back Radio	-30 dB	Options	GHz 19 dBi	
	(Min.)	on	2×N-female	
Isolation	35 dB	Request	Panel, More	
	(Min.)		Options on	
Natural			Request	
Network	<b>D</b> • • • • •	. (D.D) = :		
Topology			to-Multipoint	
		y-chain, Ring,		
Redundancy	Flow-based routing, Multiple Drop-off			
A 4 1 111:	Point, Bonded Link			
Mobility	Mobile Mode and Static Mode  Bandwidth-based Metrics Load			
Path Selection				
		raffic Load Av	ware Load	
	Balancing			
Traffic Optimization		Management		
F .		nd Prevention		
Features End-to-End Layer 2 Transparen VLAN 802.11Q Pass-through, N				
		ı Q Pass-throu	ign, Node	
	Recovery			

Security			
Link Encryption	128-bit AES		
End-to-end	256-bit AES		
Encryption			
Client MAC Access	Whitelist <sup>2</sup> , Blacklist		
Control			
Neighbor MAC	Whitelist, Blacklist		
Access 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, 1×2.4/5 GHz Radio		
Network Interface	1xGE & PoE Input Port; 1xGE & PoE		
	Output Port (802.3af)		
LED	PWR; ETH0; ETH1; PD; RADIO 0;		
	RADIO 1; RADIO 2		
Power Supply	Proprietary High Power PoE		
11.5	Injector (60W)		
Power	38 W (Max.)		
Consumption	, ,		
Antenna Movement	±30° Up/Down-tilt		
MTBF	350,000 hours (50°C)		
Physical Characteristics			
Dimensions	305×305×111 mm		
	(w/ Bracket, w/o Mounting)		
Weight	3.5 kg (Net w/o Mounting);		
	4.5 kg (Net w/ Mounting); 5.4 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	256 km/h (Max.)		
Weatherproof	IP67, 6 kV Common Mode Surge		
•	Protection		
Certification			
FCC, CE, RCM, KC, OF	CA		
Standard Warran			
	hardware warranty and firmware		
upgrade. The 1/3/5-year extended warranties are			
available under specific purchase terms and conditions.			
Ordering Informa			
Part Number	GE.AP-X330-00		
Description	X33 Anywhere Network Node		
Describuon	1 AJS Allywhere Network Node		

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

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