AX52e Anywhere Network Node



AX52e Anywhere Network Node is a distinguished dual 5GHz radios model within the AX50 series, it is designed for network professionals seeking efficiency, capacity and flexibility in their infrastructure. Its innovative features and compact design make it an excellent choice for enhancing network performance while maintaining a minimal footprint, ideal for tackling physical or economic constraints in network expansion. The AX52e offers a robust, scalable, and secure solution, ready to meet the challenges of today's digital landscapes. AX52e is also EN 50155 and EN 50121 rolling stock certified for trains make it ideal for railway and mobile vehicles applications.

Enhanced Connectivity

AX50 series equipped with dual 2.5 Gigabit Ethernet interfaces which markedly enhances the ingress / egress network throughput, supports a higher number of client devices simultaneously and ensures robust, resilient connectivity, making it ideal for bandwidth-demand environments.

Increased Spectral Efficiency

With an advanced modulation rate on the wireless link, the AX50 series achieves up to around 40% improvement in data rate under the same channel bandwidth. This enhancement not only optimizes data transmission efficiency but also reduces network congestion, particularly in densely populated areas.

Superior Data Processing

AX50 series revolutionizes data handling with around 100% increase in encapsulation and decapsulation performance. This allows for efficient management of higher data throughput across the mesh cluster, facilitating rapid and effective data transmission to meet modern network demands with the Anywhere Networks' proprietary flow-based routing algorithm.

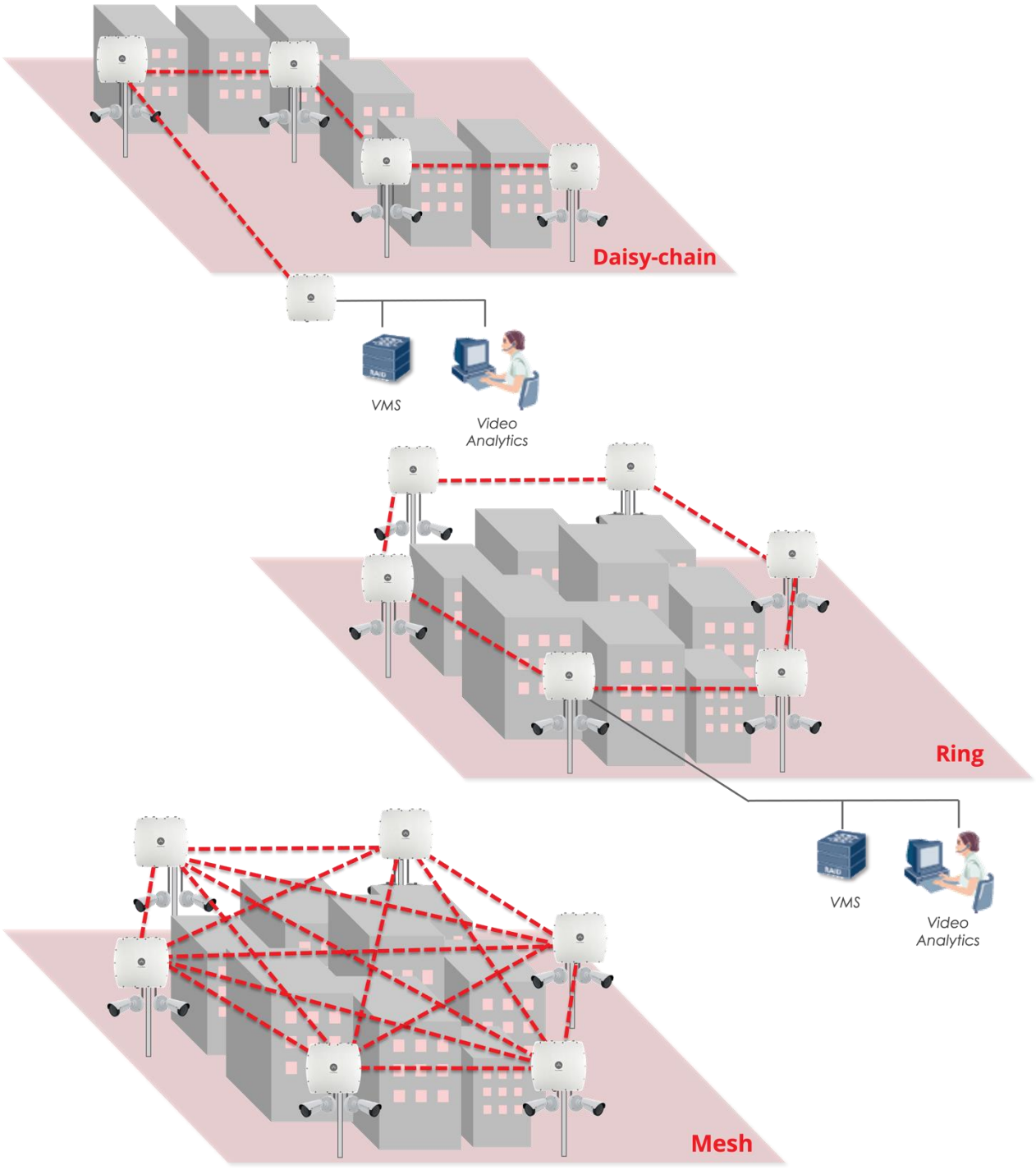
Ultra high throughput backhauling applications	Great Spectral Efficiency	Industrial-grade hardware and compact design
• 100% improvement on encapsulation and decapsulation performance • 2 x 2.5 Gbps ETH port	• Support 1024-QAM, up to 1201 Mbps data rate @ 80MHz channel bandwidth	• IP 67 weatherproof • EN50155 and EN 50121 certified

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Anywhere

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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, 1024QAM DSSS: DBPSK, DQPSK, CCK	
No. of Spatial Stream	2×2: 2 MIMO	
Channel Bandwidth[1]	20/40/80 MHz Channel	
Data Rate	287 Mbps (20MHz); 574 Mbps (40 MHz); 1201 Mbps (80 MHz)	
Receive Sensitivity	-82 dBm (20 MHz); -79 dBm (40 MHz); -76 dBm (80 MHz)	
Transmit Power[1]	25 dBm (Max)	
Features	Spectrum Scan, Antenna Alignment	
Antenna		
Connected To	Radio 0	Radio 1
Type	External 5 GHz	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, max. 3/radio), Daisy-chain and Ring	
Redundancy	Flow-based Routing, Multiple Drop-off Point, Bonded Link	
Mobility	Mobile Mode and Static Mode	
Path Selection	Bandwidth-based Metrics Load Balancing, Traffic Load Aware Load Balancing	
Traffic Optimization	BUM Traffic Management, L2 loop Detection and Prevention	
Features	End-to-End Layer 2 Transparent, VLAN 802.11Q Pass-through, Node Recovery	
Security		
Link Encryption	128-bit AES	
End-to-End Encryption	256-bit AES	
Client MAC Access Control	Whitelist, 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, MIB support
Hardware	
No. of Radio	2×5 GHz Radio
Network Interface	1×2.5GE & PoE Input Port (802.3at); 1x2.5GE Port (data only)
LED	PWR, ETH 0, ETH 1, RADIO 0, RADIO 1
Power Supply	PoE 802.3at 43-57V/0.6A; DC 48V/1A
Power Consumption	20 W (Max.)
Antenna Movement	±30° Up/Down-tilt (Enclosure)
Physical Characteristics	
Dimensions	235.0 × 224.2 × 61.2 mm (w/o Mounting)
Weight	1.840 kg (Net w/o Mounting); 2.620 kg (Net w/ Mounting); 3.095 kg (Gross)
Mounting	Pole Mounting (ø25 to ø75 mm), Wall Mounting; H/V or ±45° Slanted Mounting
Environmental	
Temperature	-35˚C to 60˚C (Operating)
Humidity	5% to 95 % Non-condensing
Elevations	86 to 106 kPa
Wind Loading	256 km/h (Max.)
Weatherproof	IP67, 2 kV Common Mode Surge Protection, IEC61000-4-2 (Criteria B) 8 kV Air, 4 kV Contact, Salt Mist EN 50155 Part 13.4.13
Certification	
FCC, CE, RCM, KC EMC Rolling Stock Apparatus: EN 50121-3-2 Environment, Safety and Reliability: EN 50155 Vibration and Shock: EN 50155 Part 13.4.10 and BS EN 61373 (Class 1B) Fire: EN 45545-2 (R25) Hazard Level 1 to 3, EN 60695-2-11	
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-AX52-E0
Description	AX52e Anywhere Network Node

[1]operating frequency, transmit power and channel bandwidth vary by country/region settings. DFS channels (5.250-5.350 and 5.470-5.725 GHz) are disabled by default and enabled only where permitted by local regulations.

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