AX51 Anywhere Network Node



AX51 Anywhere Network Node is a single 5GHz radio model within the AX50 series, it is designed for network professionals seeking efficiency and capacity in their infrastructure, especially deploying it as an leaf node or Point-to-Point. 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 AX51 offers a robust, scalable, and secure solution, ready to meet the challenges of today's digital landscapes.

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.

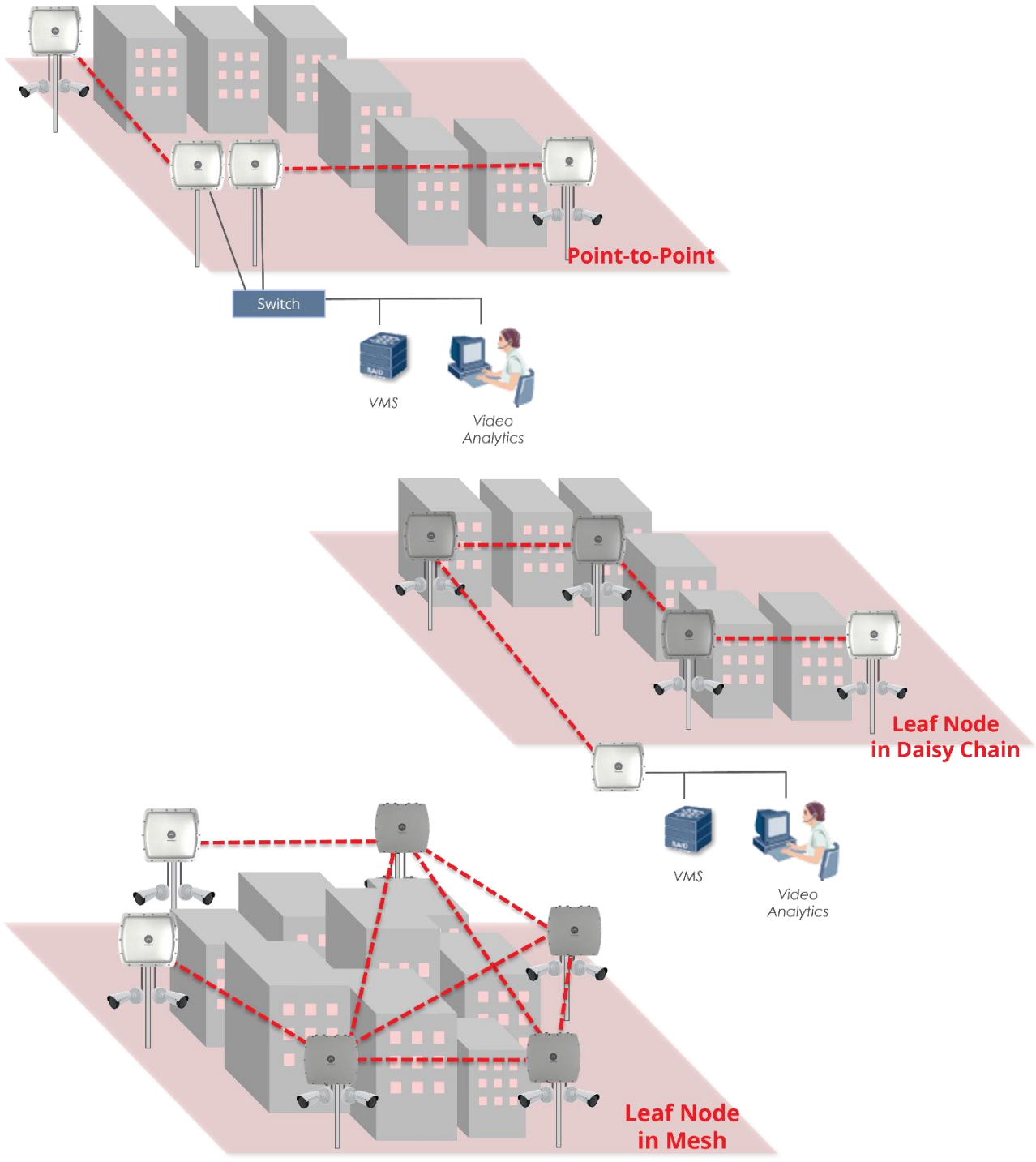
Ultra high throughput backhauling applications	Great Spectral Efficiency	Industrial-grade hardware and compact design
• 100% improvement on encapsulation and decapsulation performance • 2 x 2.5 Gbps ETH port	• Support 1024-QAM, up to 1201 Mbps data rate @ 80MHz channel bandwidth	• IP 67 weatherproof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

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Anywhere

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Deployment Architecture



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Specification

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
Type	Built-in 5 GHz
Gain	17 dBi
Polarization	Vertical & Horizontal
Horizontal Beamwidth	16-20˚
Vertical Beamwidth	18-22˚
VSWR	2.0 (Max.)
Front-to-back Radio	-28 dB (Min.)
Isolation	30 dB (Min.)
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	1×5 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
Power Supply	PoE 802.3at 43-57V/0.6A; DC 48V/1A
Power Consumption	12 W (Max.)
Antenna Movement	±30° Up/Down-tilt
Physical Characteristics	
Dimensions	242.6 × 219.2 × 77.2 mm (w/o Mounting)
Weight	1.885 kg (Net w/o Mounting); 2.660 kg (Net w/ Mounting); 3.235 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
Certification	
FCC, CE, RCM, KC	
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-AX51-00
Description	AX51 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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