



A Complete Range of  
Wi-Fi Solutions

# FlexNET

- A flexible wireless  
Ethernet/IP backhaul  
connection product

Airspan's FlexNET link products (ASN-700, ASN-900) are highly flexible outdoor-proof radio equipment, which can be configured for point-to-point and repeater deployments. Built within a robust weatherproof enclosure FlexNET link withstands harsh environmental conditions and temperature fluctuations.

FlexNET Link products house up to two radio transceivers plus a single integrated 5.4-5.8 GHz directional antenna which may be optionally turned off. External 2.4 or 5 GHz antennas can be connected for configurations requiring dual radio units. The unit provides state of the art encryption methods and long range link performance.

FlexNET link units can be deployed as a part of a high capacity wireless Ethernet/IP backhaul network. It utilises 64-OFDM technology to provide robust performance in near line of sight and line of sight conditions. The link products work based on dynamic fall back rates. This supports maximal data rate and throughput even in varying conditions where some interference may exist.

These products are based on industrial grade electronics components offering better reliability, higher MTBF and longer equipment lifetime.

FlexNET link products can be conveniently used as a cost effective wireless backhaul solution for WiMAX and Wi-Fi hotzone networks. Combining high throughput, with low latency and flexible Ethernet and IP configurations support demanding QoS requirements of wireless broadband applications.



- **Ideal backhaul solution for WiMAX access networks: Airspan's complete turnkey solutions**
- **Easy to integrate with Airspan's WiMAX products**
- **Enables End-to-End QoS with 802.1p and IP/DiffServ settings for prioritised backhaul traffic**
- **4 Tx/Rx Queues in RF interface for wireless QoS**
- **Long range link applications up to 60 km (35 miles)**
- **High throughput giving up to 47 Mbps with 20 MHz channel (Max 80 Mbps with 40 MHz channeling)**
- **Advanced security: AES (Advanced Encryption Standard)**
- **Support for industry-standard carrier-grade topologies:**
  - IP routing , OSPFv2 and RIPv2
  - Wireless bridging and routed networks
  - Load balancing and redundancy



Radio Technology	ASN-700	ASN-900
Application area:	Point-to-Point link	Point-to-Point link, Link repeater and Wi-Fi Access or mix
Radio and modulation types:	OFDM radio, supports BPSK, QPSK, 16QAM, 64QAM modulations	
Sensitivity:	5 GHz: -94 dBm @ 6Mbps, -74 dBm @ 54Mbps, FCC high power model 5 GHz: -92 dBm @ 6Mbps, -73 dBm @ 54Mbps, ETSI model 2.4 GHz DSSS: -95 dBm @ 1Mbps, -90 dBm @ 11Mbps 2.4 GHz OFDM: -92 dBm @ 6Mbps, -73 dBm @ 54Mbps	
Data transfer rates:	6, 9, 12, 18, 24, 36, 48, 54 Mbps @ 2.4GHz, 5.4 and 5.8GHz OFDM 1, 2, 5.5, 11 Mbps @ 2.4GHz DSSS 108 Mbps in turbo mode	
Output Power Control:	9 - 23 dBm (1 dBm steps) at antenna port, Max output power levels: FCC model up to 26 dBm, ETSI model up to 19 dBm	
Frequency bands:	2.412-2.472 GHz 11 Channels FCC, 13 Channels ETSI, 5.470-5.725 GHz 11 Channels ETSI, 5.725 - 5.850 GHz FCC 5 Channels, UK 4 Channels, 5.85-6.1 GHz	
Transmit Power Control and dynamic frequency selection (TPC/DFS):	Yes	
Effective link range distances:	Point-to-point mode up to 60 km (35 miles)	
Antenna:	Integrated 23 dBi (5 GHz), 10° beamwidth, vertical polarization, one N-connector for use of external antenna	Integrated 23 dBi (5 GHz), 10° beamwidth, vertical polarization, two N-connectors for use of external antennas
Networking and Security		
	802.1Q/P, IP/DiffServ, Four class QoS Engine with Tx/Rx-queues in wireless RF interface, Wireless Transparent Bridge, Static and Dynamic routing (OSPFv2, RIPv2), WEP 64, 128 and 152Bit, WPA2 and WPA2-PSK Wi-Fi protected access using 128bit AES encryption, 802.1x, MIR Bandwidth control, Multiple SSID's with per SSID security settings, VLAN tagging and 40 MHz channel mode giving data rates up to 108Mbps.	
Management		
	Wireless, Ethernet Web based (HTTP, HTTPS), Encrypted (SSH2) command-line interface, Multiple administrative classes, Central web based (HTTPS) via network controller, UserID/password authentication, SNMP v2c, MIB II, FlexNET enterprise MIBS, Traps, Remote software and settings update.	
Mechanical & Electrical Specifications		
Interfaces:	One Ethernet interface (10/100 Base T), one N-connector	Two Ethernet interfaces (10/100 Base T), two N-connectors
Power over Ethernet support	Yes	Yes
Physical dimensions:	468mm x 468mm x 78mm (WxHxD), weight 3kg	250mm x 259mm x 81mm (WxHxD), weight 3kg
Electrical specifications:	Power consumption max 24W, 12-24VDC, indoor Poe (Power over Ethernet injector included, 110 - 240VAC in, 47-63 Hz	Power consumption max 33W, 12-24VDC, indoor Poe (Power over Ethernet injector included, 110 - 240VAC in, 47-63 Hz
Environmental Specifications		
	10...90% relative humidity (non-condensing) -40°C to +70°C, IP67, IEC 60068.	
Standards Compliance		
	EN 300 328, EN 301 893, EN 301 489: 1 & 17, IEEE 802.3, IEC 60068, IEC/EN-60950-1 CB/CTUVus certificate for USA and Canada, FCC 15.107, FCC 15.109 FCC 15.247, IC RSS 210, OFCOM IR 2007.	



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