FlexNET
- A flexible platform for Wi-Fi Hotzone applications

Airspan's FlexNET ASN-900 is a highly flexible outdoor 802.11a/b/g base station platform for Wi-Fi Hotzone deployments that works with any 802.11a/b/g standards compliant Wi-Fi network card. Built within a robust weatherproof enclosure FlexNET withstands harsh environmental conditions and temperature fluctuations. Used in conjunction with Airspan's RoamNET software, it provides network wide seamless IP layer handoff between access locations within a Wi-Fi Hotzone.

FlexNET houses up to two radio transceivers plus a single integrated 5.4-5.8GHz directional antenna. External 2.4 GHz or 5 GHz antennas can be connected for configurations requiring dual radio units and Wi-Fi Hotzone applications.

New larger scale Wi-Fi access network deployments require high capacity and scalability. FlexNET ASN-900 product provides rich set of enterprise class Wi-Fi security and management features. Dual radio product supports both single Wi-Fi hot spot location deployments and larger scale contiguous coverage Wi-Fi hotzones. This ensures stepwise and scalable strategies for Wi-Fi access networks.

New services include standardized Quality of Service for VOIP, video and multimedia applications. WMM (Wireless multimedia enhancements) provides QoS for traffic priority management. Multi-operator service locations are easily supported with their unique SSIDs in virtual access point mode configuration.

- **Excellent radio receiver sensitivity**
- **Standard 802.11 a/b/g Wi-Fi access services**
- **Integrated Wi-Fi access and wireless Ethernet/IP backhaul with one device**
- **High throughput giving up to 25 Mbps effective data rate per radio**
- **State of the art security features**
- **Support for industry-standard carrier-grade topologies:**
  - **IP routing, RIPv2 and OSPFv2**
  - **Wireless bridging and routed networks**
- **IP Roaming in local network using RoamNET software**

Technical Specifications

Radio Technology	ASN-900
Application area:	Point-to-Point Link, Link repeater, Stand alone Wi-Fi access point, Wi-Fi Hotzone deployments
Radio and modulation types:	IEEE 802.11b DSSS, IEEE 802.11a/g OFDM
Sensitivity:	802.11b -95 dBm @ 1Mbps, -90 dBm @ 11Mbps
Sensitivity:	802.11g -92 dBm @ 6Mbps, -73 dBm @ 54Mbps
Sensitivity:	802.11a -92 dBm @ 6Mbps, -73 dBm @ 54Mbps
Data transfer rates 802.11a/g:	6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps
Data transfer rates 802.11b:	1, 2, 5.5, 11 Mbps
Output Power Control:	Max TX Power 19dBm@2.4GHz Max TX Power 17dBm@5.4GHz
Frequency bands:	2.412-2.472GHz 11 Channels FCC, 13 Channels ETSI; 5470-5725GHz 11 Channels ETSI; 5.725 – 5.850GHz 5 Channels FCC, 4 Channels UK
Transmit Power Control (TPC) and dynamic frequency selection DFS:	Yes
Antenna:	Integrated 23 dBi (5 GHz), 10° beamwidth, vertical polarization and two N-connectors for external antennas
Networking and Security	
	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, WMM QOS for traffic priority management, Multiple SSID's with per SSID security settings, VLAN tagging and 11a Turbo mode giving data rates up to 108Mbps.
Management	
	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, traps, Remote software and settings update.
Mechanical & Electrical Specifications	
Interfaces:	Two Ethernet interfaces (10/100 Base T), Two N-connectors for external antennas
Physical dimensions:	468mm x 468mm x 78mm (WxHxD), weight 3 kg
Electrical specifications:	Power consumption max 33W, 12-24VDC, outdoor proof power supply included 110 - 240VAC in, 24VDC out or Power over Ethernet
Mounting:	Brackets included for poles up to Ø65mm
Environmental Specifications	
	10…90% relative humidity (non-condensing) -40°C to +70°C, IP67, IEC 60068.
Standards Compliance	
	IEEE 802.3, IEC 60068, IEC/EN-60950-1 CB/cTÜVus certificate for USA and Canada, FCC 15.107, FCC 15.109, FCC 15.247, IC RSS 210.