



Benefits

- Carrier class performance in a cost effective solution
- Easy to Deploy, rugged, compact solution
- Multiple management tools
- Integrated antenna with flexible options in frequency bands and external N-connector option
- Unmatched security
- Auto discovery and provisioning
- Long Range links to the mesh network
- Low cost – High power/Long distance performance
- Non-Line of Sight (NLOS) – multipath routing

At a Glance

nEX-G MeshReach CPE



Protecting investment and minimizing cost are key deployment factors at the top of the list for service providers. The Operator's business model is often defined at the market level dictated by the subscriber which in turn is a direct proportional cost of the monthly subscription to the subscriber. Hence the fine line faced by both incumbents and NextGen Operators in cost-effective deployment of customer devices that meet and beat the ever decreasing cost criteria for outdoor CPEs. The nex-G MeshReach CPE is designed to deliver carrier class performance at an attractive price, offering high levels of reliability, functionality and flexible.

Supporting IEEE802.11a/b/g standards, nex-G MeshReach CPE is a carrier class, attractive, compact, outdoor client device with integrated sector antenna and an external N-connector choice for alternative use of an omni antenna. The nex-G MeshReach CPE is PoE powered with an Ethernet drop to the subscriber and links directly to the wireless mesh infrastructure via the integrated directional 5GHz antenna.

The nex-G MeshReach CPE features an attractive outdoor enclosure built to withstand the most extreme weather conditions, a robust aluminum casing, and designed to enable quick and easy deployment, i.e. true 'plug and play'. The nex-G MeshReach CPE enables outstanding flexibility in choice of frequency band in the 2.4GHz and 5GHz ranges, specific to in-country deployments with integrated antenna in various band-specific models and software selectable tri-band radio.

The nex-G MeshReach CPE incorporates state of the art security functionality such as WEP/WPA/WPA2, dynamic key, 802.1x authenticator and supplicant. Security policy settings can be applied per BSSID or interface basis. Multiple BSSID, VLAN, tunneling and per interface network policies allow creation of very flexible network structures where the same hardware infrastructure can be used for public access with WEB login and WPA2 protected company network or multiple WISP networks can run on the same hardware.

Technical Specifications

Wireless

- Multiple-radio platform up to 4 radios
 - access and backhaul radio IEEE 802.11 a/b/g
- Modulation:
 - 802.11a, 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
 - 802.11b: DSSS (CCK, DQPSK, DBPSK)
- Frequency Band
2.400–2.483 GHz; 940–5.150, 5.150–5.250, 5.250–5.350, 5.420–5.725, 5.725–5.850GHz (Channel availability subject to country specific regulatory approvals)
- TX Power: Up to 4W EIRP depending on antenna configuration
- 7dBi – 12dBi Omni directional antennas (optional – order separately)
- Transmit Power Control (TPC)
- Dynamic Frequency Selection (DFS)
- RX Sensitivity:

2.4GHz	5GHz
97dBm@1Mbps	94dBm@6Mbps
92dBm@11Mbps	74dBm@54Mbps

Antenna

- 21° Horizontal x 30° Vertical @ 15dBi Gain for 5GHz panel
- 44° Horizontal x 32° Vertical @ 15dBi Gain for 5GHz panel
- Vertical Polarisation
- Connector SMA Female

Management

- WEB management via HTTPS
- Command line management via SSH and serial console
- Configuration file upload via HTTPS and FTP
- RCMS configuration, firmware management and status reporting agent with NAT/Firewall traversal functionality
- Subnet or VLAN for management traffic
- Management access control list
- Administrator authentication via RADIUS or TACACS
- SNMP V1/2/3
- SNMP Traps
- Supported MIB's: 802.11, 802.1x, MIBII, RADIUS authentication, RADIUS accounting
- SYSLOG support including remote servers and debug levels
- Dual firmware images and TFTP firmware recovery from boot loader if both firmware images were damaged

Approvals

- Radio: FCC part 15
- CE mark

Environmental Specifications

- Operating Temperature: -40° C to + 60°
- Storage Temperature: -40° C to + 85° C
- Weather Rating: IP66 / Nema 4 Rating
- Wind Survivability: > 265 km/h
- Operating Humidity: 5% to 95% non-condensing
- Wind Loading (265 km/h): ~ 1020 Newtons
- Shock & Vibration: ETSI 300-019-14

Physical and Electrical

- Power over Ethernet (PoE) compliant with 802.3af (-48V)
- Power consumption: 15 Watts
- LEDs: Power, Radio, Ethernet and Status lamps
- Antenna Connector: N Female
- Network Connection: Single weatherproof, industrial-grade RJ45 (10/100 Base T Auto MDX)
- USB Serial Console: Mini USB interface for configuration
- Dimensions: 169mm (W) x 244mm (H) x 94mm (D)
- Weight : 1.1kg with mounting brackets

Package Accessories

- Mounting Bracket and accessories
- PoE
- RF cable provided
- Hardware Installation Guides

Optional Accessories

- 7 - 10dBi omni directional antenna 2.4GHz & 5GHz

Warranty

- One (1) year on parts and labour ; return to point of purchase
- Optional standard and premium support packages available

