



nex-G OneReach



Supporting IEEE 802.11a/b/g standards, nex-G OneReach is a carrier class, attractive, compact, outdoor client device with integrated antenna and external N connector. It is compatible with 802.11 compliant access points, including the nex-G MonoReach and MultiReach products, enabling point to multipoint deployment.

Carrier class

Flexible

Secure

Easy to deploy
and manage

Cost effective

Carrier class performance in a cost effective solution

The nex-G OneReach client is designed to deliver carrier class performance at an attractive price, offering high level of

- ▣ Reliability
- ▣ Functionality
- ▣ Flexibility

Integrated antenna and flexible options

OneReach enables outstanding flexibility in choice of frequency band in the 2.4GHz and 5GHz ranges.

- ▣ Integrated antenna in various band-specific models
- ▣ Software selectable tri-band radio
- ▣ N connector, allowing attachment of external antenna

Unmatched Security

OneReach offers a highly secure connection from the subscriber

- ▣ WEP64/128 support
- ▣ 802.11i
- ▣ 802.1x

Protecting your investment

A future-proof solution designed to last

- ▣ Remotely upgradeable firmware
- ▣ 16MByte of flash to enable extensive enhancements
- ▣ Linux operating system

Multiple management tools

OneReach features a range of management interfaces, including

- ▣ Device level
 - CLI, (SSH, Telnet, SNMP, Web GUI)
- ▣ Web-based management system – nex-G Configurator, offering
 - Remote performance monitoring
 - Powerful manageability

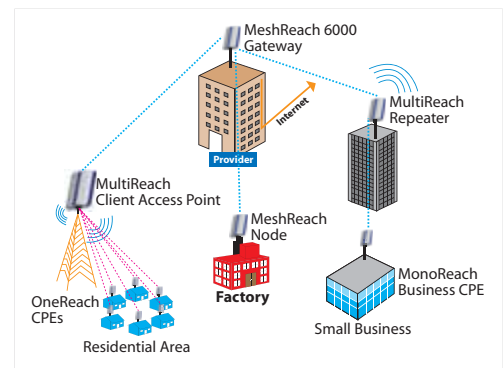
Easy to deploy, rugged, compact solution

OneReach features an attractive, compact, outdoor enclosure built to withstand the most extreme weather conditions, and designed to enable quick and easy deployment.

- ▣ Robust aluminium casing
- ▣ Weather-proof
- ▣ True 'plug and play'
- ▣ Power over Ethernet

Target Applications

- ▣ WISP / ISP access
- ▣ Instant wireless broadband connectivity
- ▣ Residential, industrial or campus outdoor solutions



nex-G Reach Infrastructure Point-to-Point/Multipoint

Technical Specifications

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

Specifications

Wireless

- 1 radio platform –CPE radio IEEE 802.11 a/b/g
- Modulation:
 - 802.11a, 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
 - 802.11DSSS (CCK, DQPSK, DBPSK)
- Frequency Band
2.400–2.483 GHz; 4.940–5.150, 5.150–5.250, 5.250–5.350, 5.420–5.725, 5.725–5.850 GHz
(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@11 Mbps	74dBm@54 Mbps

Antenna

- Integrated Panel
- Frequency:

5.470 - 5.850GHz	2.400 – 2.4835 GHz
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- Antenna Gain:

15dBi	12dbi
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- Beamwidth :

Horizontal (azimuth) 21°	44°
Vertical (elevation) 30°	32°
- Polarisation:

Vertical	Vertical
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- Connector:

SMA Female	SMA Female
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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
- Operating Humidity: 5% to 95% non-condensing
- 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

