

Wi-Fi CPE / Access Point



EXORA-01

EXORA-01 employs smart signal processing algorithms and antenna design to increase Wi-Fi signal strength (transmit and receive) as well as the client's throughput in areas covered by an **EXORA-08** Wi-Fi Base Station. It enables network operators to take advantage of the cost savings provided by the **EXORA-08** Wi-Fi Base Station's 10X greater coverage area when initially installing the Wi-Fi system.

With powerful built-in antennas, the **EXORA-01** Wi-Fi CPE can be used to improve the link budget by as much as 16 dB. **EXORA-01** can be installed exactly where the signal strength requirement is the greatest. This allows an increase in the coverage distance from the **EXORA-08** base station substantially and provides greater flexibility and savings compared to the initial Wi-Fi coverage provided by **EXORA-08** alone.

EXORA-01 is designed and purpose-built for carriers. Its built-in traffic shaping based bandwidth control mechanism allows the control of uplink and downlink traffic throughput on a per-client or per-VAP basis. WDS, VPN pass-through and a full set of networking and management features are available to meet carrier requirements.

EXORA-01 is a key component in wireless broadband access provisioning. It can be installed outdoors by the side of a window, mounted to a wall, at the rooftop of a building or placed at the desktop inside for fixed broadband access provisioning.

EXORA-01 can also be used as a stand-alone Wi-Fi Access Point for smaller networks with Fast Ethernet backhaul. With its high gain built-in smart antenna, it is an important solution to complement the large coverage of an **EXORA-08** Wi-Fi Base Station.

EXORA-01 Wi-Fi CPE is the most cost effective and versatile way to replace traditional last mile access. When combined with the **EXORA-08** Wi-Fi Base Station and **EXORA-02** Wi-Fi AP/Bridge, it can be used to build a high capacity Wi-Fi system that achieves the fastest ROI for both telecom operators and enterprises.

Key Features

- Features built-in for carriers including per client/VAP bandwidth control, remote web-based management and client performance statistics
- $\pm 45^\circ$ cross-polarized patch antennas are optimized to match with the **EXORA-08** antennas. It provides 3dB more gain as compared to other V-H polarized CPEs
- High performance antenna with 20 dB front-to-back ratio, which is on average 5 dB better than others in directional transmission without picking up unwanted signal
- One-piece weatherproof chassis, compliant to IP-55 standard for direct outdoor installation
- 8-level LED for easy alignment in the strongest signal direction
- Increase signal strength for both NLOS and LOS coverage areas
- Improve data transmission rate and throughput utilization of base station

Technical Specifications

Wireless interface

802.11b/g Radio :

- Operating Mode : CPE/AP
- Standard : IEEE 802.11b/g
- Operating Frequency : 2.412– 2.472 GHz (Ch 1-13)
- Transmit Power

802.11b	1– 11 Mbps	26 dBm (Max.)
802.11g	6– 54 Mbps	26 dBm (Max.)
- Receiver Sensitivity (Typical)

802.11b	11 Mbps	-90 dBm
	1 Mbps	-95 dBm
802.11g	54 Mbps	-72 dBm
	6 Mbps	-92 dBm
- Transmit and Receive Diversity
- Automatic Channel Assignment

Antenna

- 2 x built-in 10 dBi $\pm 45^\circ$ cross-polarized patch antenna
- 70° horizontal beamwidth
- 30° vertical beamwidth
- 20 dB (typical) front-to-back ratio

Networking

- Bandwidth Control
- DHCP Client/ Server/ Relay
- Dynamic NAT
- PPPoE Client, PPPoE Pass-through
- VPN Pass-through
- Bridge/Router Mode
- 10/100 Mbps Ethernet Port
- WDS
- Preferred AP Association
- Site Survey/ Channel Scan
- Click to Connect
- Auto ACK Timeout Calculation by Distance Input
- WMM

Security

- Authentication : Open system, Shared key, WPA/ WPA-PSK, WPA2/ WPA2-PSK, 802.1x (PEAP, TLS, TTLS)
- Encryption : WEP, TKIP, AES
- MAC based Access Control
- SSID Suppression

Management

- Web-based Administration Tool
- Remote Firmware Upgrade (HTTP)
- SNMP
- Performance Statistics
- Supported by **Liteview EXORA** NMS Software
- TR-069 Support

Physical specification

- Dimension : 220 x 80 x 24 mm (excluding mounting)
- Weight : 0.4 kg
- Mounting : Desktop, Pole, Wall or Window-mounted
- LED Display : Main Power Status, Ethernet Status, 8-level Signal Strength (User configurable)

Power supply

- Power Source : DC Injector
- Power Consumption : 4W (Max.)

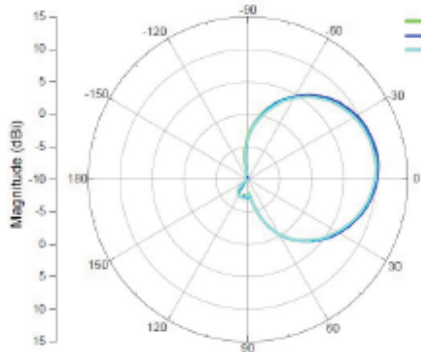
Environmental specification

- Operating Temperature : -10 °C to +55 °C
- Storage Temperature : -40 °C to +80 °C
- Humidity : 5– 95% (Condensing)
- Wind Loading : 90 mph (Operational), 125 mph (Survival)
- Weatherproof : Outdoor UV Stabilized Plastic, IP-55 Compliant

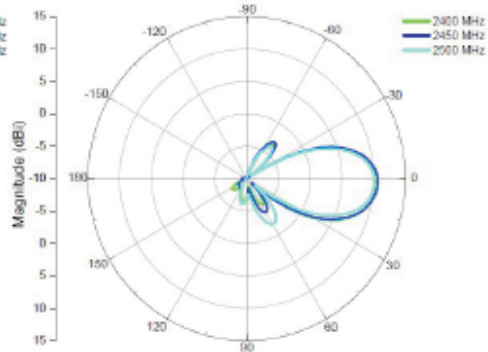
Antenna pattern (Built-In antenna)

-45°

H-plane Co-polarization Pattern

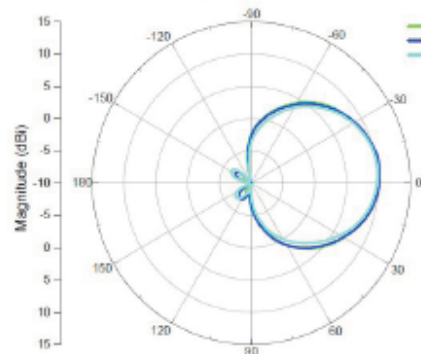


V-plane Co-polarization Pattern

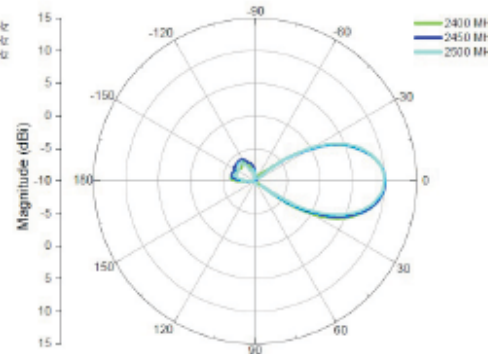


+45°

H-plane Co-polarization Pattern



V-plane Co-polarization Pattern



Ordering EXORA-01

Exora-01/10dbi

Exora-01 comes with Built-in 2.4GHz, 10dBi patch antenna, along with DC Injector, AC Adapter, Table Stand, wire clamp and 25mtr PoE cable



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