

Wi-Fi Access Point / Bridge



EXORA-02

EXORA-02 Wi-Fi Access Point/Bridge is designed to be used in **EXORA** Wi-Fi systems to increase system capacity, extend coverage, fill-in areas of low or blocked signals caused by obstructions and bridge wirelessly to remote site. It is capable of providing the highest possible data throughput and capacity that the 802.11n standards can offer, and at the same time is backward compatible to 802.11a/b/g standards.

EXORA-02 employs the cellular concept of expanding system capacity by dividing the coverage area of 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 a Wi-Fi system is initially installed.

EXORA-02 Access Point/Bridge has both high capacity 2.4 GHz (2x2 802.11b/g/n) broadcast radio and a 5 GHz (2x2 802.11an) back-haul radio to enable it to function not only to expand in-system capacity, but also to extend the range of a Wi-Fi system. Being equipped with a built-in 5 GHz backhaul radio, the **EXORA-02** can be connected directly to **EXORA-08** 5GHz Bridge radio to create a high capacity Wi-Fi system.

EXORA-02 can be used as a stand-alone Access Point for smaller systems. With built-in backhaul capability, it can be used to create simple and efficient 1 to 3 cell systems that can be a cost effective alternative for smaller coverage areas and systems where the coverage of a **EXORA-08** Wi-Fi Base Station is not required.

EXORA-02 Access Point/Bridge provides the most cost effective and versatile way to enhance a Wi-Fi in terms of its capacity, coverage or range. When combined with the **EXORA-08** Wi-Fi Base Station, it can create possibly the most cost-effective high capacity Wi-Fi network system.

Key Features

- Multi-operating modes allowed: AP, bridge, repeater mode or CPE
- 2 x 2 MIMO for both 2.4GHz (802.11bgn) and 5 GHz (802.11an) radios
- IP-67 rated carrier grade 802.11b/g/n AP for both outdoor and indoor applications
- Increase system capacity under the coverage area of **EXORA-08** Wi-Fi Base Station
- Fill-in coverage area in challenging RF environment
- Fast Ethernet or 2 x 2 802.11an wireless backhaul
- PTP and PTMP bridging with built-in dual polarized panel antenna
- Light weight with built-in lightning protection
- Easy installation & web-based management

Technical Specifications

Wireless interface

802.11b/g/n (2x2) Radio :

- Operating Mode : Access Point/CPE/Repeater *
- Standard : IEEE 802.11b/g/n
- Operating Frequency : 2.412– 2.4835 GHz (Ch 1-13)
- Transmit Power : 26 dBm (Max)
- Receiver Sensitivity (Typical)

802.11b	11 Mbps	-91 dBm
	1 Mbps	-96 dBm
802.11g	54 Mbps	-81 dBm
	6 Mbps	-95 dBm
802.11n	HT20	-95 dBm
	HT40	-92 dBm
- Antenna (Connect up to 2 antennas)
External : 5 dBi Omni (Optional)
- Transmit and Receive Diversity
- Automatic Channel Assignment

802.11a/n (2x2) Radio :

- Operating Mode : Point to Point Bridging
Point to Multi-point Bridging
(Up to 4 peers)
- Standard : IEEE 802.11a/n
- Operating Frequency : 5.825– 5.875 GHz
- Transmit Power : 23 dBm (Max)
- Receiver Sensitivity (Typical)

802.11a	54 Mbps	-79 dBm
	6 Mbps	-95 dBm
802.11n	HT20	-95 dBm
	HT40	-92 dBm
- Antenna
Built-in : 16 dBi Flat Panel
(Dual Polarization)

Networking

- 16 Multiple SSID/ Virtual AP
- VLAN
- DHCP Client/ Server/ Relay Dynamic NAT
- PPPoE Client, PPPoE Pass-through
- VPN Pass-through
- Switch and Gateway Mode
- 10/100 Mbps Ethernet Port

Security

802.11b/g/n

- Authentication : Open system, Shared key,
WPA/ WPA-PSK
WPA2/ WPA2-PSK
802.1x (PEAP, TLS, TTLS)
- Rogue AP detection
- Encryption : WEP, TKIP, AES
- MAC based Access Control
- SSID Suppression
- Inter-VPA/ Intra-VAP client communication control

802.11a/n

- Encryption : WEP, AES

Management

- Web-based Administration Tool
- Remote Firmware Upgrade (HTTP)
- SNMP

Physical specification

- Dimension : 220 x 220 x 60 mm
- Weight : 1.3 kg (Unit Weight)
4.4 kg (Gross Weight)
- Mounting : Pole or Wall mounted

Power supply

- Power Source : PoE Injector (48V DC)
- Power Consumption : 15 W (Typical) / 30 W (Max)

Environmental specification

- Operating Temperature : -33 °C to +55 °C
- PoE Power Injector : 0 °C to +60 °C
- Storage Temperature : -40 °C to +80 °C
- Humidity : 0– 95% (Non-condensing)
- Lightning Protection : IEC 1000-4-2/
Instant Surge 4 KV
- Wind Loading : 90 mph (Operational)
125 mph (Survival)
- Weatherproof : IP-67 Compliant



Ordering EXORA-02

Exora-02/5G16dbi/2x2.4GExt/48	Exora-02 is 802.11n capable and comes with standard IDU Exora-PS (power supply), Built-in 5GHz 16dBi Panel Antenna, provision for two 2.4GHz External Antenna, 0.5Mtrs RFcables, 25Mtrs PoE cable and Mounting Accessories.
2.4Ghz 6dBi Omni Antenna	2.4GHz Antenna (Optional)
2.4Ghz 8dBi Omni Antenna	2.4GHz Antenna (Optional)
2.4Ghz 12dBi Omni Antenna	2.4GHz Antenna (Optional)



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