



POINT-TO-MULTIPOINT

FOX 5310™ 5.3 GHz Subscriber Unit

Broadband Wireless CPE

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POINT-TO-MULTIPOINT BROADBAND WIRELESS INTERNET ACCESS

The low cost FOX5310 Subscriber Unit with robust ARQ⁺ is the industry's highest performance solution for large-scale fixed wireless deployments. The FOX5310 can deliver 10 Mbps at up to 7 km⁺. Additionally, the FOX5310 provides a host of powerful provisioning and management tools in a compact, easy-to-install package.

Manageability

- » Fully manageable either locally (via the Ethernet port), or over-the-air via the associated Access Point
- » Supports SNMP and features an easy-to-use browser interface as well as a full command line interface

Security

- » Direct sequence spread spectrum (DSSS) technology, providing excellent range and immunity to interference
- » MAC authentication, coupled with proprietary transmission scrambling, provides a high degree of over-the-air security

Durability & Ease of Installation

- » Fully weatherized, outdoor unit designed for easy and quick installation
- » Compact form factor features a universal mounting bracket, a built-in LED alignment tool
- » Power-over-Ethernet to minimize deployment costs

Highlights

- Up to 10 Mbps usable subscriber throughput
- Up to 7 km⁺ range
- Robust interference rejection (ARQ⁺)
- Dual polarity antenna, software switchable
- Fully weatherized for outdoor deployments

Performance & Flexibility

- » Delivers up to 10 Mbps of usable data throughput
- » Features innovative dual-polarized antenna technology
- » It can be deployed up to 7 km⁺ with a 7 dB fade margin
- » Integrated ARQ⁺ functionality provides for robust link performance in noisy environments

Affordability

- » Aggressively priced while providing best-of-breed technology with excellent ROI. We understand our customers' needs for robust and cost-competitive solutions that drive down acquisition costs while maximizing bottom line results.

Patented SMARTPolling™

The FOX 5310™ SU is equipped with SMARTPolling™, a powerful prioritization scheme designed to ensure the highest quality of service to active bandwidth subscribers. SMARTPolling™ allows the AP to dynamically and adaptively poll each SU efficiently favoring subscribers that are engaged in passing traffic, guaranteeing the lowest latency for those users.

Range/Data Throughput Chart

SU MODEL	PART NUMBER(S)	MAX RANGE FROM AP	THROUGHPUT	ANTENNA GAIN
FOX5310 ^{##}	M5310S-FSU	7 km—7 dB fade margin [†]	10 Mbps	15 dBi

Includes: FOX5310 radio, Power-over-Ethernet (PoE) junction box, 24 VDC power adapter and mounting brackets.
 Note: Ranges listed assume line-of-sight. Actual maximum ranges may be greater depending on site conditions.

Specifications

RADIO PARAMETERS	
Frequency of Operation	5.25 GHz to 5.35 GHz
Channels	5 non-overlapping channels
Antenna	Internal: 15 dBi, 32° x 18° patch array dual polarized (HPOL/VPOL)
Modulation Format	Direct Sequence Spread Spectrum (DSSS) with RAKE
Certification/Compliance	FCC Part 15.247
Receiver Sensitivity (1E10 ⁻⁶ BER)	-87 dBm [†]
EIRP Max	+37 dBm
DATA AND OPERATIONAL PARAMETERS	
Access Method	TDD with SmartPolling™
Security	Proprietary Data Scrambling
Latency	10 msec (typical)
Access Point Compatibility	Access5830 AP with version 2.0 firmware
User Data Throughput	Up to 10 Mbps
Format	10/100 Base T
Interference Rejection	ARQ [†] (Automatic Retransmit reQuest)
Network Protocols	All IEEE 802.3/802.3u compliant protocols
Configuration and Management	Telnet, TFTP, HTTP, PPPoE, SNMP v1.0 (via AP)
Upstream/Downstream Throughput	Dynamic, automatically adjusts to suit demand
Bandwidth Control	Committed Info Rate (CIR) and Maximum Info Rate (MIR) setting controlled at AP
PHYSICAL INTERFACES	
Ethernet (via shielded RJ45)	10/100 BaseT, auto-sense, auto-negotiate
Reset Switch	Resets radio to factory default: IP address, subnet mask, gateway and password
LED Indicators	7 LEDs including: 4 RSSI, 1 association, 1 network, 1 activity
POWER PARAMETERS	
Power Method	Power-over-Ethernet (PoE) via DC voltage injected at PoE J-box
Voltage Input Limits into Radio	10.5 VDC – 24 VDC
Standard Power Supply	230 VAC to 24 VDC Universal
PoE Cat-5 Max Cable Length	100 meters on 24 AWG STP Cat-5 cable
Power / Current Draw	400 mA (8 W)
PHYSICAL AND ENVIRONMENTAL	
Radio Enclosure	All-weather, polycarbonate
Mounting Provision	Wall/pole mount bracket (1" diameter or greater)
Temperature Range	-40° to 60° C (-40° to 140° F)
Radio Dimensions	9.2" x 4.25" x 3.1"
Radio Weight	1 lb.
User Interface	RJ45 (shielded)

† ARQ available as a free firmware upgrade; must be loaded on AP and SU.

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