



FOR EXPORT ONLY. NOT FOR U.S.A.

TrangoFOX Series™

FOX5310 Subscriber Unit⁺⁺

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.

Product Highlights

• PERFORMANCE & FLEXIBILITY

The FOX5310 is a low cost subscriber unit (SU) that delivers exceptional performance featuring Trango's innovative dual-polarized antenna technology. It can be deployed up to 7 km[‡] with a 7 dB fade margin. The FOX5310's integrated ARQ[‡] functionality provides for robust link performance in noisy environments while delivering up to 10 Mbps of usable data throughput to the subscriber.

• MANAGEABILITY

The FOX5310 SU is fully manageable either locally (via the Ethernet port), or over-the-air via the associated Access Point. It supports SNMP and features an easy-to-use browser interface as well as a full command line interface.

• DURABILITY & EASE OF INSTALLATION

The FOX5310 SU is a fully weatherized, outdoor unit designed for easy and quick installation. The compact form factor features a universal mounting bracket, a built-in LED alignment tool, and Power-over-Ethernet to minimize deployment costs.

• SECURITY

The FOX5310 SU utilizes 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.

• AFFORDABILITY

The FOX5310 SU is aggressively priced and provides a combination of 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.

- Low Cost (Fast ROI)
- Robust interference rejection (ARQ[‡])
- Up to 7 km[‡]
- Up to 10 Mbps

Wireless Connectivity **IS** Our Business

FOX5310™ Specifications

RANGE/DATA THROUGHPUT CHART

SU Model	Part Number(s)	Max Range from AP	User Data 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.

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)

All specifications are typical and subject to change without notice.

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

^{‡‡} Not licensed for use in the U.S.A. Legal regulations for wireless communications vary from region to region—users are responsible for complying with their region's regulations.