

A full-featured, enterprise class customer premise radio, the Access5830™ Subscriber Unit offers dual-band flexibility, long range and three certified antenna options. The Access5830 Subscriber Unit works in conjunction with the Access5830 Access Point for point-to-multipoint deployments.

Product Highlights

FLEXIBILITY

The Access5830 Subscriber Unit offers operators the flexibility of operating in either the license-exempt 5.8 GHz ISM or the 5.3 GHz U-NII bands. In addition, this robust subscriber unit (SU) provides a host of configuration options which are vital for interference mitigation including full control over operating channels, antenna polarizations, and receiver threshold settings.

MANAGEABILITY

The Access5830 Subscriber Unit is fully manageable via the Ethernet or serial port, as well as over-the-air via the access point. The unit features an easy-to-use browser interface and a full command line interface. Useful tools such as site survey and RSSI aid in the deployment process.

SPEED

The Access5830 Subscriber Unit efficiently delivers up to 10 Mbps throughput and utilizes patent pending SmartPolling™ algorithm.

LONG RANGE ANTENNA OPTIONS

The Access5830 Subscriber Unit is available in two versions. The M5830-SU includes an integrated, dual polarized antenna which offers a six-mile range. The MS5830-SU-EXT includes two SMA antenna connectors, allowing the attachment of a variety of longer range antennas.

DURABILITY, EASE OF INSTALLATION

The Access5830 Subscriber Unit has a ruggedized, weatherproof design and is powered via Power-over-Ethernet (PoE) to ensure easy installation and quick deployment.

SECURITY

The Access5830 Subsciber Unit utilizes Direct Sequence Spread Spectrum technology, providing excellent range and immunity to interference. MAC authentication, coupled with transmission scrambling, provides a high degree of over-the-air security.

AFFORDABILITY

The Access5830 Subscriber Unit offers robust features and unmatched flexibility at a competitive price.



ANTENI	NTENNA / RANGE CHART						
Antenna Style		SU Model	Max Range from AP	Antenna Gain	Beamwidth		
					Azimuth	Elevation	
	Internal Patch	M5830S-SU	6 miles (high band) (10 dB fade margin) 2 miles (low band)	18 dBi	18°	10°	
	15" External Square Patch AD5830-23-DP	M5830S-SU-EXT	10 miles (10 dB fade margin)	24 dBi	9°	9°	
	Radiowaves 3' Parabolic Antenna SPD3-5.2T*	M5830S-SU-EXT	18 miles (12 dB fade-margin)	30 dBi	4°	4°	

 $[\]ensuremath{^{*}}$ Available from Radiowaves (www.radiowavesinc.com) and Radiowaves distributors

RADIO PARAMETERS			
Frequency of Operation	High Band (ISM Band): 5725 MHz to 5850 MHz Low Band (U-NII Band): 5250 MHz to 5350 MHz		
Channels	High Band (ISM Band): 6 non-overlapping channels Low Band (U-NII Band): 5 non-overlapping channels		
Modulation Format	Direct Sequence Spread Spectrum (DSSS) with RAKE		
Certification/Compliance	FCC Part 15.247, 15.407		
Receiver Sensitivity (1E10-6 BER)	1600 byte packets: -83 dBm, 64 byte packets: -87 dBm		
DATA AND OPERATIONAL PAR	AMETERS		
Access Method	TDD with SmartPolling™		
User Data Throughout	10 Mbps		
Format	10/100 Base T		
Network Protocols	All IEEE 802.3/802.3u compliant protocols		
Configuration and Management	Telnet, SNMP, TFTP, HTTP		
Upstream/Downstream Throughput	Dynamic, automatically adjusts to suit demand		
Bandwidth Control	Committed Info Rate (CIR) and Maxiumum Info Rate (MIR) setting per subscriber unit		
PHYSICAL INTERFACES			
Ethernet (via shielded RJ45)	10/100 BaseT, auto-sense, auto-negotiate		
Serial (via RJ11)	9600 baud		
Ethernet Packet	Up to 1600 byte long packets (supports VLAN/VPN pass through		
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	120 VAC to 24 VDC adapter		
PoE Cat-5 Max Cable Length	ngth 300 feet on 24 AWG STP Cat-5 cable		
Power	13.4 W		
PHYSICAL AND ENVIRONMENT	AL		
Radio Enclosure	All-weather, powder coated, cast aluminum with polycarbonate radome		
Temperature Range	-40° to 60° C (-40° to 140° F)		
NEMA Rating	NEMA 4		
Radio Dimensions	12.5" x 8" x 2.75"		
Radio Weight	4 lbs.		
User Interfaces	RJ45 (shielded) and RJ11		

Specifications are typical and subject to change without notice.

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