



### CPE Flexibility

Solectek's outdoor 3.65 GHz subscriber unit is a simple yet highly effective solution. Installation of the wall or mast mount unit is straightforward and requires only a simple Cat5 cable run. A visual antenna alignment system and plug and play features ensure fast deployment of your subscriber base.

### QoS

The SkyWay-MAX Subscriber Station is a part of a system-wide capability to provision and deliver multi-tiered Quality of Service (QoS) guarantees. Such capability is a result of number of features such as Ethernet and IP packet classification (802.1p/q, IP ToS/Diffserv), an optimal Base Station scheduling algorithms and a carrier grade service-flow administration system. The SkyWay-MAX Subscriber Station is designed from the start to support a carrier's QoS and SLA provisioning needs.

### Product Highlights

- LED visual indication for power & link status
- Compact design for easy installation
- Automatic Power control
- Dynamic Adaptive Modulation
- Plug-and-Play for centralized configuration and service provisioning
- Fujitsu MB87M3550 processor based
- Remote management support via SNMP
- Fail-safe "over the air" software upgrade (dual flash)
- Optional indoor network gateway for voice and WiFi interfaces

### Indoor Network Gateway (optional)

A key application in WiMAX service delivery is the ability to provide voice channels. Solectek's Network Gateway provides for the added service via either VoIP or standard POTS interfaces. In addition, the Gateway included an indoor WiFi router with an Ethernet switch, eliminating clutters of equipment and further facilitating the end-to-end service and management of a Carrier's system.



# Specifications

## SkyWay-MAX Subscriber Station

Radio	
Protocol	802.16-2004
Modulation	OFDM256 - BPSK, QPSK, QAM16, QAM64
Duplexing	TDD
Frequency	3.3 - 3.7 GHz
Bandwidth	1.75 - 7 MHz
RF Power	up to +20 dBm
Antenna Configuration	Integrated, 30 degree directional panel

Security	
Authorization	PKM, configurable credentials lifetime Key Management  X.509 digital certificates, RSA (PKCS #1) public key algorithm
Encryption	3DES, AES

Network	
Bridging	802.1d Transparent Bridging

Management	
Access	HTTP Telnet/SSH, SNMP v1, v2
Control	Compatible with Solectek, custom EMS, including centralized plug'n'play  QoS packet inspection + prioritization

Diagnostics	RF, Ethernet port status, Custom Event Log, Alarms and SNMP traps
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Power	
Architecture	PoE based, 802.3af compliant
Consumption	12Watts, peak
Voltage	+48V nominal

Interfaces	
Port	RJ45
LEDs	Power, Link/Activity, RSSI

Physical	
Configuration	Weatherized, outdoor grade plastic enclosure
Size	9.5" x 7.5" x 3"
Weight	1.2 pounds
Mounting	Wall, Mast

Environmental	
Operating Temperature	-40° to +50°C
Humidity	0-100%, condensing
Wind	80 MPH operation, 110 MPH survivability

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