

SOLECTEK

SkyWay-MAX 3.65 GHz CPE

Maximum Range for Large Cell Deployment Model

Designed and supported in the USA



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

Designed, Developed and Supported by Solectek in the USA

Solectek hardware and software engineers, as well as technical support representatives, are located at our headquarters in San Diego, CA. Most of Solectek's competitors are based out of countries as far as Israel and India, and some competitors subcontract their engineering work and/or technical support. At Solectek, the people who design the products are in the same building as sales, marketing and technical support personnel, and we're ready to help when you need us.

The Affordable WiMAX Platform — Optimized for WISPs

Solectek's end-to-end WiMAX platform has been designed from the ground up for small to mid-size WISPs, rather than large carriers. If one of our competitors has tried to sell you one of their "carrier-class" base stations, which can be 50% or more expensive per tower site, harder to install and even more challenging to operate, you will be pleasantly surprised when Solectek provides a quotation and detailed description of our platform's competitive advantages. Solectek understands that ROI is high on the list of priorities when it comes to operating a WISP. Our system is optimized for fixed broadband delivery to homes, business and municipalities within a WISP business model.

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.

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 clutter of equipment and further facilitating the end-to-end service and management of a Carrier's system.



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Specifications

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Radio	
Protocol	802.16-2004
Modulation	Dynamic OFDM256 - BPSK, QPSK, QAM16, QAM64
Duplexing	TDD
Frequency	3650 MHz – 3675 MHz
Bandwidth	3.5, 7.0 MHz
RF Power	24 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	
Network	802.1d Transparent Bridging
Packet Classification	802.1p/q, TOS/Diffserv, L2/L3 Addressing
Management	
EMS	Customizable, full radio network management + control system Integrated IDU or NOC Server based
Access	SkyWay-Max Manager, Telnet/SSH, SNMP v1, v2
Control	Address/Port filtering QoS packet inspection + prioritization SLA bandwidth provisioning - CIR, EIR, best effort CoS partitioning for latency, jitter sensitive payload

Diagnostics	RF, Ethernet port status, Custom Event Log, Alarms and SNMP traps GPS derived, UTC network clock
Power	
Architecture	PoE based, 802.3af compliant PoE injector included
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 or mast mounted via included mounting kit
Environmental	
Operating Temperature	-40° to +50°C
Humidity	0-100%, condensing
Wind	80 MPH operation, 110 MPH survivability

Note 1: Actual maximum power may be federally regulated/limited. Consult appropriate regulatory agency for your country/region.

