



G I G A B E A M

GigaBeam.com

● Gi-Max CPE

Maximum Range for Large Cell Deployment



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

CPE Flexibility

GigaBeam'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 Gi-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 Gi-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 Wi-MAX service delivery is the ability to provide voice channels. GigaBeam's Network Gateway provides for the added service via either VoIP or standard POTS interfaces. In addition, the Gateway includes 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

• 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

• Power

- Architecture PoE based, 802.3af compliant
- Consumption 12 Watts, peak
- Voltage +48V nominal

• Interfaces

- Port RJ45
- LEDs Power, Link/Activity, RSSI

• Management

- Access HTTP, Telnet/SSH, SNMP v1, v2
- Control Compatible with GigaBeam, custom EMS, including centralized plug'n'play; QoS packet inspection + prioritization
- Diagnostics RF, Ethernet port status, Custom Event Log, Alarms and SNMP traps

• Physical

- Configuration Weatherized, outdoor grade plastic enclosure
- Size Base Station 28" H x 8" W x 7" D
Indoor Controller (optional)
 - 19" rackmount compatible cPCI • cage
 - 4U high•
 - 12" depth•
- Weight 24 lbs. (Base Station)
- Mounting Wall, Mast



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● Gi-Max CPE

•Environmental

- Operating Temperature 40° to +60°C
- Humidity..... 0-100%, condensing
- Wind 110 MPH operation, 125 MPH survivability