

Gigaset SE461 WiMAX

Siemens WiMAX Solution + Outdoor Antenna

Interface: WiMAX
Standards: IEEE802.16-2004 OFDM 256FFT

Variant

- o Residential Modem

Positioning

- o Cost efficient last mile wireless access for residential users, Small Office – Home Office (SOHO) and Small size Enterprises (SME)
- o Wireless alternative to wired xDSL systems
- o Receiving and delivery of voice, video and data services at a rate of multiple Mbps with guaranteed quality and grade of service (QoS GoS)

Main features

- o Cost efficient wireless last mile access
- o Broadband internet access

Applications

Internet Access

- o High Speed (up to 15 Mbps up- and download)
- o E-mail, file download
- o Office extensions
- o Streaming video
- o Music download and streaming audio

Residential Modem

- o Wireless termination point at home
- o Interface Ethernet 10/100 Base T
- o Fully indoor
- o Self installing
- o Small form factor
- o NLOS Non-line-of-sight
- o Sustained Data 15Mbps (up and downlink)
- o Up to 13 simultaneous services
- o Secure authentication and data encryption
- o 3.4 – 3.6 GHz frequency band
- o Multi-Level QoS via traffic classification and SLA enforced
 - o ToS field IP DiffServ, IEEE802.1p
 - o MAC/IP address, 802.1Q VLAN ID
- o Remote configuration, management and software update

Possible languages of UI and Manuals

- o Deutsch
- o English
- o Russian
- o French



Protocols/Network Management Features

- o DHCP Server/ Client
- o TFTP client
- o HTTP/HTTPS
- o Time of day
- o FTP Server
- o NAT
- o PPPoE
- o DMZ
- o Managed/unmanaged mode
- o Routing or bridging mode
- o DNS caching server
- o Triple DES, AES, X.509

Others

- o Dimensions approx. 161.5x 175.5 x 52.5mm
- o Operating temperature +5 °C to +40 °C
- o Storage temperature -25 °C to +70 °C
- o Network interface 1 Ethernet 10/100BaseT (RJ45) LAN connection
Auto sensing MDI/MDI-X
- o Encryption 1024Bit
- o Frequency 3.4–3.6 GHz
- o Output power up to 27 dBm
- o Power consumption 25 W
- o Pulse duration up to 5 ms
- o Pulse repetition frequency 100 Hz
- o Bandwidth 1.75, 3.5, 7 MHz
- o Type of transmission HFDD, TDD
- o Modulation technique 256 OFDM
- o Sub carrier modulation BPSK, QPSK, 16/64 QAM
- o Antenna connector 50 Ohm QMA

Optional

High speed internet access will prepare the device to run applications on additional devices (not included)

Video Services: (VoD, Broadcast Video, Video Streaming)

Real time packetized Voice: (VoIP, Streaming audio)

Real time Video: (Video conference, Video communication, Live streaming video)

<http://www.siemens.com/gigaset>

Gigaset Outdoor Antenna

WiMAX outdoor antenna

ELECTRICAL CHARACTERISTICS

- o ETSI Compliance : EN 302085 - TS2 Range 1
- o Frequency: 3.4-3.8 GHz
- o Nominal Impedance: 50 Ohm
- o VSWR: 1.5Max
- o Gain: +18 dBi
- o Radiation Pattern:
 - o -3 dB beam width: Horizontal Plane: 18 °
 - o Vertical Plane: 18 °
- o Side lobe level: Horizontal Plane: -15 dB Max
- o Vertical Plane: -15 dB Max
- o Cross Polarization: Horizontal Plane: -20 dB
- o Vertical Plane: -20 dB
- o Front to back ratio: -25 dB Max
- o Polarization: VERTICAL
- o Power withstanding: 20 W
- o Connector type: R161.237.000 N Jack
- o Cable type: RG58
- o Length: 300 mm
- o Cable: 6 m

MECHANICAL CHARACTERISTICS

- o Plastic radome: UV resistant PP
- o Color: WHITE RAL 9001
- o Ingress Protection: IP 55
- o Bracket Material: Galvanized Iron
- o Weight (Including Bracket) : 2150 g
- o Wind-loading at 100 mph (160 Km/h)
- o In accordance with the ANSI/TIA/EIA-222-F :
- o Front F max: 44.5 (198) lb (N)
- o Twisting Moment M max: 2.15(2.9) lb.ft (N.m)
- o Overall length: 308 x 308 x 35 mm
- o Fixing system: Bracket + Wall Mounting
- o Azimuth adjustment: $\pm 40^\circ \pm 4^\circ$
- o Elevation adjustment: $\pm 40^\circ \pm 4^\circ$
- o Operating temperature: -45/+70 ° C

