

maksat **cpe** WiMax

IEEE 802.16d 5G WiMAX CPE

Maksat Wimax CPE fully complies with IEEE 802.16-d standard, and is fully integrated MAC/PHY mixed base band processor for Broadband Wireless Access. WiMAX is a standards-based wireless technology that provides high-throughput broadband connections over long distances and LOS/NLOS environment up to 15-20km. WiMAX can be used for a number of applications, including "last mile" broadband connections, broadband wireless service and high-speed backhaul, enterprise connectivity.



Features

- IEEE 802.16d-2004 compliant
- Support Channel Bandwidth 1.75 3.5,5,7,10MHz
- Adaptive Power Control
- Support Qos UGS, rtPS*, nrtPS* and BE
- Support ARQ
- Support Up-Link Sub-Channelization in SS
- Power over Ethernet DC supply
- web firmware upgrade , remote and local web management
- Support VLAN Tag
- Support SNMP
- RoHS Compliance



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WiMax
RADIO SPECIFICATION

Radio processor	PR 1620
Radio transceiver	MAX2828
Radio frequency range	4.9Ghz & 5.875Ghz
FFT	256
Channel Width	1.75Mhz, 3.5Mhz, 5Mhz, 7Mhz, 10Mhz
Frame duration	2.5, 4, 5, 8, 10, 12.5, 20ms
Cyclic prefix	1/4, 1/8, 1/16, 1/32
Antenna	Dish
Antenna Diversity	Antennae switch for RX
RF Modulation Scheme	QAM64, QAM16, QPSK, BPSK
Duplex Format	TDD
QoS	UGS, BE, (rtPS*, nrtPS*)
ARQ	ARQ Procedure Feedback/STC mode
Output Power	17dBm typical, options up to 25dBm

Receive Sensitivity

Modulation Type	1.75MHz	3.5MHz	5MHz	7MHz	10 MHz
BPSK	-99dBm	-96dBm	-95dBm	-93dBm	-90dBm
QPSK	-94dBm	-91dBm	-90dBm	-88dBm	-85dBm
16-QAM	-88dBm	-85dBm	-84dBm	-82dBm	-79dBm
16-QAM	-81dBm	-78dBm	-77dBm	-75dBm	-72dBm



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SOFTWARE INFORMATION

Wireless Features	<ul style="list-style-type: none"> ● support Qos ● Adaptive Power control ● Bandwidth Control ● Uplink Sub Channelization in SS ● ARQ
Network Features	<ul style="list-style-type: none"> ● Support DHCP server * ● Support VLAN tag * ● Support Static IP * ● Support FTP server * ● Support PPPoE client *
Security Features	<ul style="list-style-type: none"> ● RSA Based ● AES (CCM/CBC/CTR)-HW engine ● DES-HW engine ● PKMv1
Management Features	<ul style="list-style-type: none"> ● Support NTP function ● Support Temperature monitor ● Support SNMP V2 ● Support load factory default ● Support backup and restore UI settings ● Support firmware upgrade

POWER AND INVOIRMENT INFORMATION

DC Jack Input	12V - 18V @2a (DC voltage)
PoE	Passive Poe range (12V - 18V DC) input
Power Consumption	Less than 15W (fully loaded)
Height x Width x Depth Weight	7" x 11" x 5" 3Kg
Operational Temperature	(-)40C to (+)80C
Storage Temperature	(-)60C to (+)150C
Humidity	Humidity 0-95% non condensing, Outdoor weatherproof enclosure
Water Proof	IP_67

* Coming soon

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