

# *maksat* **BTS** *mini* **WiMax**

## **IEEE 802.16d 5G WiMAX MINI BTS**

Maksat Wimax mini BTS 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.

4 units of 90° Panel Antennas covering 360° with 4 RF interfaces



With inbuilt router and Network Management System

### **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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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	17dbi Sector (120/90/160)
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
<b>BPSK</b>	-99dBm	-96dBm	-95dBm	-93dBm	-90dBm
<b>QPSK</b>	-94dBm	-91dBm	-90dBm	-88dBm	-85dBm
<b>16-QAM</b>	-88dBm	-85dBm	-84dBm	-82dBm	-79dBm
<b>16-QAM</b>	-81dBm	-78dBm	-77dBm	-75dBm	-72dBm



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## SOFTWARE INFORMATION

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

## 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