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SilverNet Limited

WiMAX Integrated



SKU: SILMAXi

Features

- ➢ROHS Compliant
- ≻802.16d-2004 WiMAX
- ≻Operate at 3.5GHz
- ≻Non Line of Sight (NLOS)
- ≻Full support for Sub-
- Channelisation
- ≻High spectral efficiency
- ≻Efficient bandwidth allocation
- ≻Dynamic power control
- ≻Built-in panel antenna for 3.5GHz
- Resistant design for outdoor

environment (IP65)

≻SNMP support

Signal Status Display by LED LinePOE





What is the WiMAX Integrated?

The WiMAX Integrated benefits from WiMAX technology, delivering the best economics and advanced wireless solution for fixed broadband access.

Operating at 3.5GHz(*5.8GHz) with Orthogonal Frequency Division Multiplexing (OFDM) and nonline-of-sight (NLOS) technology helps to overcome common urban obstacles

The WiMAX Integrated comes with 802.3af Power over Ethernet (PoE) support making it easy and fast to install. It also has a built-in antenna and waterproof design ideal for Outdoor applications

The advantage of the WiMAX Integrated

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•Lower total cost of your Point to Multipoint wireless access system

•SNMP and AAA (Authentication, Administration and Authorization) support for operation and maintenance

Contents

- WiMAX Unit ×1
 Product CD ×1
 Power Adapter ×1
- Power AdapterDC Injector
- •Power Cable
- •Fixed settings
- •Installation Guide ×1



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System		
Operation Mode	CPE	
IP Router	Yes	
NAT	Yes	
Access Control	Yes	
Flow Control	Yes	
DHCP	DHCP Client/DHCP Server	
NTP	Yes	
HTTP Redirect	Yes	
Watchdog	Yes	
Features		
QoS	Yes(rtPS/nrtPS/UGS/BE)	
Encryption	DES/AES	
DFS(Dynamic Frequency Selection)	Yes	
ARQ(Automatic Repeat Request)	Yes	
PHS(Payload Header Suppression)	Yes	
Site Survey	Yes	
Radio		
Standard	IEEE 802.16-2004, HiperMAN/WiMAX Fixed Profile	
Modulation	OFDM[BPSK, QPSK, 16-QAM, 64- QAM]	
Frequency	3.4 to 3.6 GHz in steps of 250kHz	
Bandwidth	1.75MHz, 3.5MHz & 7MHz	
PHY	OFDM/FFT	
Duplexing Method	TDD and HFDD	
Spectral Efficiency	5 bits/sec/Hz (64-QAM uncoded)	
Supported Frame Lengths	2.5,4,5,8,10 & 20 ms	
Supported Cyclic Prefix Lengths	1/4,1/8,1/16,1/32	
Tx Maximum output Power (at antenna connector)	20.5dBm	
Tx Center Frequency Tolerance	< \pm 2% subcarrier spacing	
Symbol Clock Frequency Tolerance	< ±5ppm	
Frequency Control	Automatic Frequency Control (AFC)	
Spectral Mask Requirements	Type-G mask ETSI-EN301021	
Power Control	Automatic Gain Control (AGC), Automatic Link Control (ALC)	
Adjacent Channel Rejection C/I	16-QAM 3/4	64QAM 3/4
	-11dB	-4dB
Nonadjacent Channel Rejection C/I	16-QAM 3/4	64QAM 3/4
	-30dB	-23dB

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that are in force.

Relative Tx Constellation Error	Burst Type	Typical [dB]	
(@20.5dBm output power)	BPSK 1/2	-31.5	
	QPSK 1/2	-31.5	
	QPSK 3/4	-31.5	
	16QAM 1/2	-31.5	
	16QAM 3/4	-31.5	
	64QAM 1/2	-31.5	
	64QAM 3/4	-31.5	
Maximum Rx Receiver Sensitivity (BER <10-6)	Burst Type	Typical [dB]	
	BPSK 1/2	-95.0	
	QPSK 1/2	-93.0	
	QPSK 3/4	-89.5	
	16QAM 1/2	-86.5	
	16QAM 3/4	-83.0	
	64QAM 1/2	-79.0	
	64QAM 3/4	-77.0	
Management			
Secure WEB Management	Yes		
SNMP	Yes (SNMP V1/2)		
SSH	Yes		
CLI	Yes		
F/W Upgrade	Web/TFTP/FTP		
Backup Settings	Web/TFTP/FTP		
Interface			
LAN	One 10/100-BaseTX RJ-45 Ethernet Port		
Antenna Type (Built-in)	16dBi pannel antenna		
Default Button	Yes		
Ground Interface	Yes		
Led	1-Power, 1-WLAN, 1-LAN, 5-Signal Indicator		
Physical			
Dimension (mm)	292x288x84		
Weight (Kg)	1.4	1.4	
Power Consumption	10W	10W	
Power Supply	PoE,802.3af compliant, Remote Power 48V@500mA		
Environment			
Operating Temperature	-20℃~65℃		
Operating Humidity	5 ~ 95% Non-Condensing		
Storage Temperature	-40℃~85℃		
Storage Humidity	5 ~ 95% Non-Condensing		
Waterproof	IP65		
Lead-free	RoHS Compliant		
Warranty	12 months		