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SilverNet

WiMAX Bridge

SKU: SILMAXBR

■ 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

➤N-Type port for external antenna

➤Resistant design for outdoor environment (IP65)

➤SNMP support

➤Signal Status Display by LED Line

➤POE

■ *What is the WiMAX Bridge?*

The WiMAX Bridge 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 non-line-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 an N-Type antenna port and waterproof design ideal for Outdoor applications

■*The advantage of the WiMAX Bridge*

●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
•DC Injector   ✕1
•Power Cable   ✕1
•Fixed settings   ✕1
•Installation Guide ✕1

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	< ±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

Relative Tx Constellation Error (@20.5dBm output power)	Burst Type	Typical [dB]
	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 (N-Type port)	N-Type (female) for external 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
Power Consumption	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

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