

WirelessMAN° 802.16



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



A Broadband Wireless Networking Company

System			Relative Tx Constellation Error	Burst Type	Typical [dB]
Operation Mode	CPE		(@20.5dBm output power)	BPSK 1/2	-31.5
IP Router	Yes			QPSK 1/2	-31.5
NAT	Yes			QPSK 3/4	-31.5
Access Control	Yes			16QAM 1/2	-31.5
Flow Control	Yes			16QAM 3/4	-31.5
DHCP	DHCP Client/DHCP Server			64QAM 1/2	-31.5
NTP	Yes			64QAM 3/4	-31.5
HTTP Redirect	Yes		Maximum Rx Receiver Sensitivity (BER <10-6)	Burst Type	Typical [dB]
Watchdog	Yes			BPSK 1/2	-95.0
Features				QPSK 1/2	-93.0
QoS	Yes(rtPS/nrtPS/UGS/BE)			QPSK 3/4	-89.5
Encryption	DES/AES			16QAM 1/2	-86.5
DFS(Dynamic Frequency Selection)	Yes			16QAM 3/4	-83.0
bi o(bynamic i requency delection)				64QAM 1/2	-79.0
ARQ(Automatic Repeat Request)	Yes			64QAM 3/4	-77.0
PHS(Payload Header Suppression)	Yes		Management	Vac	
Site Survey	Yes		Secure WEB Management	Yes (SNIMP V1/2)	
Radio			SNMP	Yes (SNMP V1/2) Yes	
Standard	IEEE 802.16-2004, HiperMAN/WiMAX Fixed Profile		CLI	Yes	
			F/W Upgrade	Web/TFTP/FTP	
Modulation	OFDM[BPSK, QPSK, 16-QAM, 64-		Backup Settings	Web/TFTP/FTP	
QAM]		Interface			
Frequency	3.4 to 3.6 GHz in steps of 250kHz		LAN	One 10/100-BaseTX RJ-45 Ethernet Port	
Bandwidth	1.75MHz, 3.5MHz & 7MHz		Antenna Type (N-Type port)	N-Type (female) for external antenna	
PHY	OFDM/FFT		Default Button	Yes	
Duplexing Method	TDD and HFDD		Ground Interface	Yes	
Spectral Efficiency	5 bits/sec/Hz (64-QAM uncoded)		Led	1-Power, 1-WLAN, 1-LAN, 5-Signal	
Supported Frame Lengths	2.5,4,5,8,10 & 20 ms			Indicator	
Supported Cyclic Prefix Lengths	1/4,1/8,1/16,1/32		Physical Piercesian (1997)	292x288x84	
Tx Maximum output Power	20.5dBm		Dimension (mm) Weight (Kg)	1.4	
(at antenna connector)	100/		Power Consumption	1.4 10W	
Tx Center Frequency Tolerance	< ±2% subcarrier spacing		Power Supply	PoE,802.3af compliant, Remote Power	
Symbol Clock Frequency Tolerance	< ± 5ppm		1 ower ouppry	48V@500mA	
Frequency Control	Automatic Frequency Control (AFC)		Environment		
		Operating Temperature		-20℃~65℃	
Spectral Mask Requirements	Type-G mask ETSI-EN301021		Operating Humidity	5 ~ 95% Non-Condensing	
Power Control	Automatic Gain Control (Al Automatic Link Control (AL		Storage Temperature	-40℃~85℃	
			Storage Humidity	5 ~ 95% Non-Condensing	
Adjacent Ghanner nejection Gh	16-QAM 3/4 64QAM 3/4 -11dB -4dB		Waterproof	IP65	
Name diagram Observat Deits diagram Off			Lead-free	RoHS Compliant	
Nonadjacent Channel Rejection C/I	16-QAM 3/4 -30dB	-23dB	Warranty	12 months	
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