

SLOKA



Broadband Wireless Everywhere!



3.5 GHz  
Functional Specifications  
Sloka WiMAX CPEs

Sloka Telecom Pvt. Ltd.

<http://www.sloka.in>

## RADIO

Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit		
RF Band	3.3-3.4 GHz, 3.4-3.5 GHz, 3.5-3.6 GHz		
Channel Bandwidths	3.5 MHz, 7 MHz (Software Configurable)		
Frequency Resolution	250KHz steps		
Spectral Efficiency	5 bits/sec/Hz (64-QAM un-encoded)		
Receive Sensitivity typical at BER <10 <sup>-6</sup>	Burst Type	3.5MHz	7MHz
	BPSK 1/2	-94	-91
	QPSK 1/2	-91	-90
	QPSK 3/4	-90	-87
	16-QAM 1/2	-87	-84
	16-QAM 3/4	-84	-81
	64-QAM 2/3	-80	-77
64-QAM 3/4	-78	-75	
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		
Radio Access Method	TDD		
RF Output Power	+17 dBm max		
RF Output Dynamic Range	30 dB		

## ANTENNA

Model SLK-TR-WMX-3.5-14	Integrated 14 dBi flat panel antenna
Model SLK-TR-WMX-3.5-17	Integrated 17 dBi flat panel antenna
Model SLK-TR-WMX-3.5-20	Integrated 20 dBi flat panel antenna

## DATA COMMUNICATIONS

RF	IEEE 802.16-2004
Data	IEEE 802.3 CSMA/CD
VLAN support	IEEE 802.1Q
Error Control Coding	Concatenated Reed-Solomon Convolutional Code
Polarization	Horizontal or Vertical
Throughput	Up to 35 Mbps ( Raw data in BER test mode )

## MANAGEMENT

LED Display	Signal strength / power
Network Protocol	TCP/IP
Encryption Protocol	DES-CBC, AES-CCM
Subscriber Unit monitoring	SNMP, Web-based GUI, Telnet, SSH
Subscriber Unit management	Web-based GUI
Ethernet Connector	10/100Base-T (water tight RJ-45)

## PHYSICAL AND ENVIRONMENTAL

Dimensions	103/8" x 85/8" x 21/4" (264mm x 219mm x 57mm)
Weight	3lbs (1.35kg)
Operating Temperature	-45°C to +55°C
Power requirement	IEEE 802.3 (PoE) and Auxillary POE

## STANDARDS AND REGULATIONS

CE/Industry Canada EN 302-502, EN301-489, EN55022, IP67