

SLOKA



Broadband Wireless Everywhere!



5.3-5.8 GHz  
Technical Specifications  
Sloka WiMAX Base Stations

Sloka Telecom Pvt. Ltd.

<http://www.sloka.in>

## Functional

Models	Sloka Med power Base Station – BX5824 Sloka Low power Base Station – BX5818
Standard	IEEE 802.16-2004
Frequency	5.15-5.35 GHz, 5.47-5.725 GHz, 5.725-5.875 GHz
Modulation	OFDM - 64QAM 3/4, 64QAM 2/3, 16QAM 3/4, 16QAM 1/2, QPSK 3/4, QPSK 1/2, BPSK 1/2
Duplex Method	TDD
Channel bandwidth	10 MHz
Configurable Cyclic Prefix	1/4, 1/8, 1/16, 1/32
Traffic Classification	IP traffic
Subchannelization support	No
Voltage	48V PotE
FEC	Convolutional coding with tail biting
Port	Connector RJ-45
Serial Port / GPS Port	RJ-45 Connector
NLOS & Interference	OFDM 256 FFT, Adaptive Modulation, FEC
Frame Duration	2.5, 4, 5, 10, 12 and 20 ms
VLAN	Support for 802.1Q VLAN tagging and filtering; Support for transparent passing of 802.1Q-compliant VLAN tagged frames
CINR	23 dB
Midamble	Supported
Transmit power control	Automatic transmit power control
DFS (Dynamic Frequency Selection)	Deployed by Sep 08 as software upgrades
ARQ (Automatic Repeat Request)	Supported
Subscriber Integrated Antenna	Optional
Base Station Antenna	No
Gain	Tested with Max 18dBi
Throughput	30 Mbps User Data on 10 MHz channels
Range	8-10 Km (BX5824); 3-4 Km (BX5818)

## Services and Provisioning

QoS	UGS, rt-PS, nrt-PS, BE
Security	X.509 certificate, PKv1, 3-DES key encryption

## Interfaces

Backhaul	10/100 BaseT; PoE (Power over Ethernet)
Antenna	N-type (Any Antenna - Omni, 60/90/120, etc)

## RF Characteristics

Sensitivity, typical (at antenna port) dBm	-80dBm
Maximum Rated Output Power	+18 dBm at Antenna Port (BX5818) +24 dBm at Antenna Port (BX5824)

## System Capacity

Max # Sectors	Single sector
Active Connected Subscriber Units	64

## Mechanical

Operating Temperature	-45° C to +55° C
Dimensions Mounting	11" X 9" X 4" (maximum) - Pico Base Station 17" X 10" X 3" (maximum) Micro Base Station Pole Mount (1.5" to 2" diameter pole)
Enclosures	IP67 compliant
Maximum cell radius	8-10 Km (BX5824); 3-4 Km (BX5818)
Outdoor/Indoor	Available in outdoor / PoE models
Central frequency resolution	250 KHz

## Data Communication

Protocols	IPv4, VLAN
Bridging/Routing	YES
Networking modes	Bridging (802.1D)
Filtering/Forwarding	Ethernet Protocol Filtering; Broadcast / Multicast Storm Threshold filtering
VLAN support	Support for 802.1Q VLAN tagging and filtering; Support for transparent passing of 802.1Q-compliant VLAN tagged frames
Layer-3 Traffic Prioritization	Supported

## Configuration and Management

Local Monitoring	Serial/CLI RJ45 Port; Logging feature which logs to serial port, flash, RAM, or a syslog server
Password	Multi-Level Password (user, administrator)
TFTP support	Yes
NMS and AAA	Sloka NMS and AAA Server
Management Protocol	Yes
Remote upgrade & Remote Management	Yes
Local & Remote Management	Yes
Remote Management Access	Yes
Management Access Protection	Yes
Software upgrade	Yes
Configuration Up/Download	Yes
SNMP Agents	Yes