



Battalion HQ

Brigade HQ



SECURED BROADBAND RADIO

Amitec Electronics Ltd is offering customised commercial off the shelf (COTS) equipments with proven performance for strategic applications with know how from and in collaboration with CSIR, Govt. of India. It uses latest DSP technology to deliver the speed, sensitivity, dynamic range and security for line of sight wireless communications.

Broadband Radio leverages proven OFDM technology to deliver high-speed throughput over wireless links.

Under clear line-of-sight conditions, SBR50 can provide robust, long-range connectivity at distances upto 50 km. The Internet Protocol (IP) design of the SBR50 delivers a seamless extension of Ethernet LANs and WANs, supporting data rates of up to 100 Mbps.

The SBR50 is an ideal solution for bandwidth-intensive applications such as VoIP, real time video, teleconferencing, and C4I. Designed for the harshest outdoor conditions, over the 5 GHz frequency band, the SBR50 is an ideal wireless networking solution for public safety, first responders, training and simulation networks, and long/short-haul battlefield communications connectivity. Point-to-point transmissions can be secured via the embedded 256 bit Advanced Encryption Standard (AES) capability or via external devices. The lightweight unit is easy to configure and deploy. The unit has an antenna alignment tool to assist in pointing the antenna to achieve maximum signal strength. Using a standard Web browser, an operator has access to all required configuration items and statistics necessary to configure and monitor the operation of the radio.

The SBR50 is dependable wireless broadband communications for commercial and military applications.

Features:

- * Long-range, high-capacity wireless IP
- * Operates in the 5.0 GHz frequency band
- * Lightweight and easy to deploy
- * Secured Communications

Technical Specifications:

System Capability	LOS, optical-LOS, and non-LOS
Operating Modes	Point-to-Point (PTP), Point-to-Multipoint (PMP)
Wireless	OFDM, Time Division Duplex (TDD)
Frequency Range	5.0-5.5 GHz
Channel Size	10, 20, 40 MHz (PTP), 20MHz (PMP)
Channel Spacing	1 MHz
TX Power	0-20 dBm (auto./man.)
Power Cable	Up to 100m
Adaptive Modulation	8BPSK to 64 QAM
Software	Upgrade via HTTP
Encryption	256 bit AES (PTP), 64 bit private key (PMP)
Power	POE 10W
Performance	Data Rate Up to 100 Mbps (uncoded burst rate) Ethernet up to 80 Mbps
Range	50 km clear LOS
Attributes	Ipv6, Transparent bridge, Automatic ranging (PTP), DHCP pass-through Ethernet 802.3x (PTP) QOS 802.1p (PTP) VLAN 802.1Q (PMP)
Interference	Dynamic Freq. Selection (DFS) Automatic Transmit Power Control (ATPC)
Network Configuration	10/100 Ethernet HTTP interface, SNMP, Telnet
Antenna	Diverse options from Omni, Patch, Parabolic

Mfd by: Amitec Electronics Ltd.

Regd. Off: 504, Nilgiri, Barakhamba Road, New Delhi-110001

Works: 4/32, Site-4, Industrial Estate Sahibabad, UP-201010

amitec@rediffmail.com, www.amitec.co.in

91-120-4371276, 91-9811839949, 91-9810193153

