

# **4600 Series**

## **Theory of Operation Principle**

The 4600 Series HotPoint Access Point is comprised of three printed circuit assemblies; a Mother Board, a Panel Board, and Radio Card. The Motherboard uses the Intel IXP425 as the central processing unit. Memory configuration is 32M bytes of FLASH and 64M bytes SDRAM. The Panel Board attaches to the front panel of the enclosure and provides the I/O interface to the end user via two weatherized connectors and also has a set of LED's that indicate status of the HotPoint. The HotPoint AP supports 10/100 Base-TX LAN network interfaces using Admtek 6996L Ethernet switch. The interface to the LAN network is through an LTW weatherized connector. The radio card (Type III mini PCI module) plugs into the Motherboard. Communication to/from the Motherboard is made via a 128 pin mini PCI connector. The Radio Card runs from 3.3 volts, which is provided by the Motherboard. The 4600 series uses an Ubiquiti Networks' SR2 radio card. The SR2 card is a full featured 802.11b/g client card. The Radio operates from 2412 MHz to 2462 MHz according to the IEEE 802.11b/g specification. The data rates supported are 1 Mbit (DBPSK), 2 Mbit (DQPSK), 5.5 Mbit (CCK), and 11 Mbit (CCK) for 802.11b and 6, 9, 12, 18, 24, 36, and 54 MBit OFDM for 802.11g. The HotPoint AP uses 8 dBi omni directional diversity antennas.