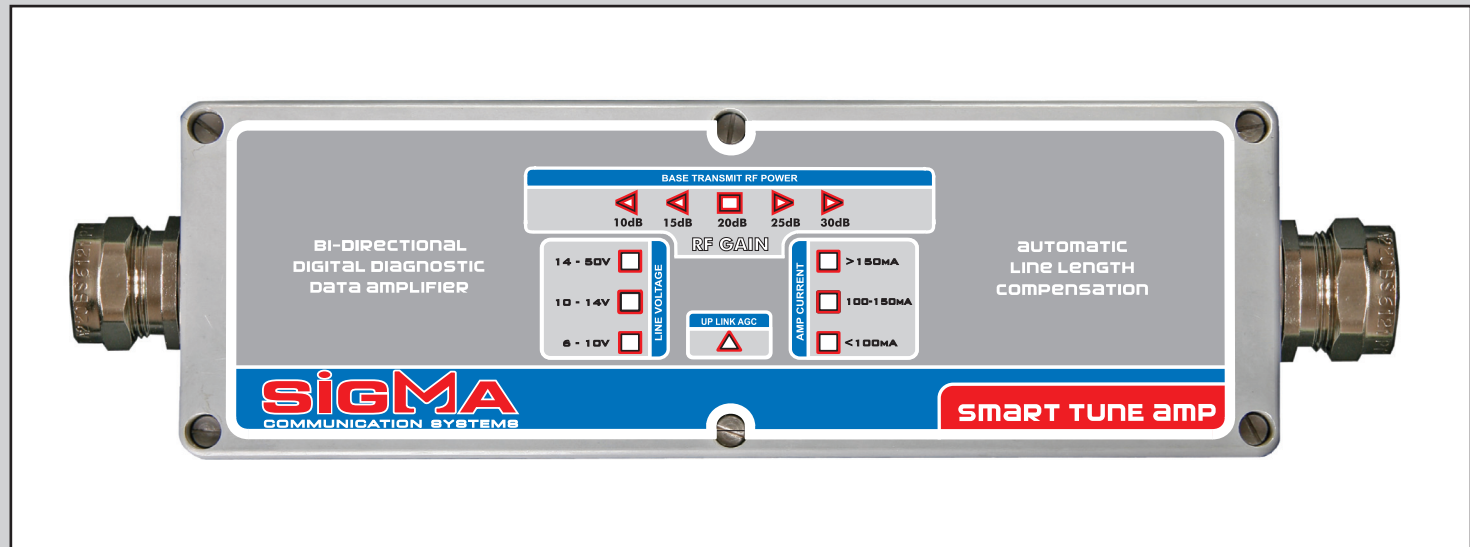


SMARTTUNE VHF LINE AMPLIFIER KEY FEATURES



- Automatic Line Length Compensation®
- High Noise Immunity
- IP66 enclosure

- Digital Diagnostics®
- Voice and data capable
- 12, 24 and 48VDC versions

DESCRIPTION

**SCS1000 series VHF SMARTTune Automatic Line Length Compensation® In-Line Amplifier**

The **VSTLAD SMARTTune®** is a quantum step forward in amplifier design, offering a very SMART attenuator, which means that you can literally install **SMARTTune®** amplifiers anywhere in the leaky feeder cable and the amplifier will set its gain according to the level of input signal received from the previous amplifier. As all amplifiers include AGC in the common path, the level of output signal in the Base TX direction will be constant. This constant output of power is used by the next amplifier in the system as a measure of the gain required. If the cable is longer, then more gain will be applied etc. Voice and Data capable and is packaged in an IP66 heavy duty enclosure. The amplifier is powered from leaky feeder cable; no special tools are required to splice it into the leaky feeder cable.

The SMARTTune® amplifier incorporates 2 separate amplifiers, TX Down-Link and RX Up-Link. The VSTLAD line amplifier also offers Digital Drive-By Diagnostics®, in the form of 11 high intensity LED's, which indicate the condition of the amplifier. Simply by walking or driving past the amplifier you can determine its condition - VOLTAGE - 3 LED Volt Meter, CURRENT drain - 3 LED Amp meter and Amplifier Gain - 5 LED meter. The amplifier was specially designed for the transmission of high speed Data, it utilises 6 filters whereas some manufacturers only offer 2 filters. The VSTLAD amplifier offers a high level of sideband immunity, as well as a high level of immunity from external noise.

SPECIFICATIONS

<b>FREQUENCY</b>	Uplink -168 to 175Mhz. Downlink -150 to 158Mhz
<b>BANDWIDTH</b>	Uplink - 2.5Mhz. Downlink - 2.5Mhz
<b>GAIN</b>	Max 30dB
<b>CONNECTION</b>	Brass Screw terminal and Saddle
<b>IMPEDANCE</b>	50 or 75 ohm versions
<b>THROUGH CURRENT CAPACITY</b>	1.5 amps Max
<b>OPERATING VOLTAGE</b>	12, 24 and 48 volt versions
<b>CURRENT DRAIN</b>	220mA @ 12VDC, 110mA @ 24VDC and 55mA @ 48VDC
<b>ENCLOSURE</b>	IP66 heavy duty enclosure c/w IP66 brass cable glands
<b>WEIGHT &amp; DIMENSIONS</b>	2Kgs -230(w) x 60(d) x 75(h) mm