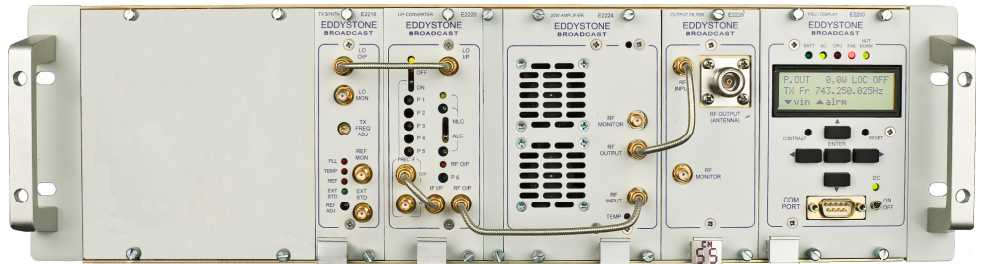


5W DVB-T/H & 20W Analogue IF INPUT TV Transmitter

Special Features

- High quality, compact design
- Dual Mode
- Broadband operation
- Fully Modular
- Choice of Output Filters
- LCD status display
- Ultra low phase noise
- Web based remote monitoring



Introduction

The S7510 is a high quality IF input TV transmitter which is normally used as part of the exciter system used in higher power systems. Its input would come from a separate, analogue or DVB-T, 1U high modulator. This arrangement provides a very simple conversion between the two formats. This unit, with a modulator, is equally suitable as a stand alone transmitter, a wide range of filters and combiners are available to meet all transmission requirements. Many of the modules are common to the remodulation/ transmitter derivatives reducing spares holding in a network operation.

System Overview

All the active parts of these transposers are contained within modules which plug into a motherboard inside a common system chassis. The high quality construction allows simple configuration and alignment changes and easy access for maintenance. Each sub-system function is contained within the appropriate module. The input is a standard IF frequency. The upconverter, with an associated low noise synthesiser, is programmable in 1Hz steps. The synthesisers can be externally locked making the systems ideal for the SFN and precision locked broadcast operation. Precorrection for the highly efficient class AB FET amplifier is provided at IF.

The power supply/display module provides all the DC voltages for the system as well as the control system and status indications/ measurements.

Specifications

Power Output	Analogue: 20W p.s. Digital: 5W rms
Output Power stability	±0.5dB
Output Frequency stability	<0.2ppm/year
Operating Frequencies/ Input	Options for: 38.9MHz, standard; others available
Output	Options for: VHF Band I: 45-90MHz; Band III 174-230MHz UHF Bands IV & V: 470-860MHz
RF Output Load Impedance	50 ohm unbalanced
RF Output Connector	N female
Intermodulation distortion, Spurious emission	<-60dB at rated output power
Receiver input	-30 to -65dBm
MER	Better than 36dB
Phase noise	-70dBc@10Hz, -85dBc@100Hz-1kHz, -100dBc@10kHz
Protections	Overpower, Overvoltage, Over current, Over temperature
Power Requirements	Single phase 230VAC ±20% or 48VDC
Ambient Temperature Range	-10°C to +45°C at an altitude up to 2500M
Remote Control	Aux port 25w; RS232, RS485, RJ45 Ethernet
Dimensions and Weight	3U 19" rack mounting: 482mm (W) x 450mm (D) x 132mm (H). 15kg