

S7340

1kW TV Transmitter

EDDYSTONE
BROADCAST

Special Features

- High quality, compact design
- Easy upgrade path to digital operation, TV Modulator is a separate unit
- Broadband plug in exciter modules
- Standard 19 inch cabinet
- Wide range of configurations, single/dual amplifier, single/dual drive or 1+1 for full redundancy
- Self contained air-cooling system
- Options available to operate in all bands and several TV standards
- Integral remote control/ monitoring including web browser
- LCD displays provided for local monitoring and control

Introduction

The S7340 is a high quality TV transmitter consisting of a 20 watt transmitter exciter feeding a self contained amplifier system. This range provides a simple upgrade path to digital broadcasting with the addition of a DVB-T modulator. A wide range of output filters and combiners are available to meet all transmission requirements. Many of the modules are common to the remodulation/ transposer derivatives reducing spares holding in a network operation.

System Overview

The self contained high performance modulator provides a standard IF signal to feed the upconverter system normally mounted below. The upconverter chassis is a series of broadband plug in modules. The synthesiser can be externally locked making the systems ideal for precision locked broadcast operation. Precorrection for the highly efficient class AB FET amplifier is provided at IF. The 20 W drive amplifier is cooled by dual rear mounting fans. A standard analogue output filter if required is housed within the chassis.

There is a choice of amplifier systems. Either a single 1kW amplifier chassis with separate PSU, illustrated, or two 500W self contained amplifier chassis combined. Each amplifier chassis is equipped with its own display providing its own output status, and the output status of the system in the case of the 1kW unit.

A choice of output filters are available to meet specific transmission requirements.



Specifications

Power Output	Analogue: 1kW p.s.
Output Frequencies	Option -01, VHF Band I: 45-90MHz; Option -03, VHF Band III: 174-230MHz Option -04, UHF Bands IV & V: 470-860MHz
RF Output Connector/Impedance	7/8" flange on cabinet/ 50 ohm unbalanced
Intermodulation distortion, Spurious emission	<-60dB at rated output power
Protections	Overdrive, VSWR, Overpower, Overvoltage, Over current, Over temperature
Power Requirements	Single phase 230VAC $\pm 20\%$ - 3300VA
Ambient Temperature Range	-10°C to +45°C up to an altitude of 2500M
Remote Control	Aux port 25w; RS232, RS485, RJ45 Ethernet
Dimensions	600mm (W) x 660mm (D) x 800mm (H)
Packed dimensions	Wooden Case: 680 mm (W) x 910mm (D) x 1040mm (H)
Total gross weight	150kg