

S8601

1kW FM Transmitter

The S8601 FM transmitter is an evolution of the highly modular architecture for which Eddystone Broadcast transmitters are legendary. The use of 600/700W hot-pluggable Power Amplifier modules means that removal of amplifiers can be carried out with minimal reduction in output power. The design features hot-pluggable switched mode 2kW power supplies. A single power supply is sufficient to operate the S8601 transmitter but additional power supplies can be fitted to provide redundancy.

Features

- Compact Amplifier and PSU Modules are replaceable on air
- Highly efficient LDMOS amplifiers
- Fully compliant with ETS 300 384 specification for FM transmitters
- Easily configured into a wide range of system architectures
- SMPS power supplies with PF correction and efficiency approaching 97%
- Comprehensive remote monitoring facilities
- Touchscreen LCD displays ensures easy local monitoring
- Automatic changeover accommodates dual exciters
- Fully redundant Amp & PSU modules common across the range



Monitoring & Control

The S8601 transmitter includes SNMP for remote control and monitoring, which is supported by a built-in webserver. The modules provide Wi-Fi connectivity for local monitoring and control, but can also be connected using LAN via an Ethernet cable. The system is programmable to provide alarms/alerts via email, as well as the option to have alarms/alerts through SMS. The system can include external sensors, to monitor information such as voltage usage, output power, temperature and humidity.

The systems offer local monitoring by way of the on-board touchscreen LCD's, that show the information on the amplifiers and overall system accordingly.

Specifications

Power Output	1kW
Operating Frequency	87.5 to 108 MHz with no tuning
RF Output Load Impedance	50 ohm unbalanced
RF Output Connector	7-16 Din (female)
Maximum VSWR	Able to maintain full power at 1.5:1
Mains Power Supply	Single phase 176-264V
RF Harmonic Output	Better than or equal to -79dBc
Ambient Temperature Range	0°C to +50°C at an altitude up to 3000M
Specification subject to change	

Model	S8601
Power output	1kW
Power amplifier modules	2
Power supply modules	1
Additional redundant PSU	1,2 or 3
Minimum drive for best efficiency	16W
Exciter option "A"	XE30(S)
Exciter option "B"	XE35(S)
Model numbers - single exciter	S8601/1(S)
Model numbers - dual exciters	S8601/2(S)
Height of amplifier in rack units	7u
<i>*add /S suffix for stereo operation</i>	