



SR3400 – Systems Base Station / Repeater

Key Features

- Uses Motorola Professional series mobiles
- Standalone repeater
- Simplex or duplex working
- Mains & float charged battery supply
- Systems connector
- Option for line interface
- Option for IP interface
- Duplexer and isolator options
- Single 3u case
- Front panel indicators
- Intelligent fan



In Brief

The SR3400 has been designed as a platform into which the user can install one or two Motorola Professional series mobile radio's operating in one of four programmed modes. The case hardware is pre-drilled to accept a number of control modules, duplexer and Isolator options.

The SR3400 consists of a standard 3u high rack mounting case fitted with a switch mode power supply unit, fan, control card and interface connections.

Interface Options

Each SR3400 has a systems card installed as standard; this allows the unit to be used as a stand alone base station, a stand alone repeater and as a systems unit with a multi-way connector for interfacing to third party tone panels or systems infrastructure.

There is also an option to install the AWCSL line interface card within the SR3400 offering full line control of the base station using either Tone Remote or M80 line signalling.

To ensure future compatibility the SR3400 also has an option for the installation of an AWCSL IP interface, providing IP control of the base station.

Features

Front panel indicators show the current operating status of the SR3400 alongside the programming port, which allows the user to configure the internal radio's without dismantling the system. For maintenance and initial assembly all the major components are mounted on a central tray which can be easily removed from the base station.

A front panel talk through / repeat control is available for standalone operation.

An intelligent fan provides airflow through the unit to ensure sufficient cooling of the system.

The SR3400 has four main modes of operation:-

- Single radio local, line or IP control
- Two radio repeater
- Two radio local, line or IP control
- Two radio cross band repeat

Battery Supply

When connected the battery will be charged by the main AC power supply. The battery is not connected to the load unless the main AC power has failed, at which time the battery is connected to the load via seamless electronic switching.

Whilst in main AC power failure mode, the battery terminal voltage is monitored and when falling to 11.5v DC, the battery will be isolated from the load to prevent destructive discharging of the battery. When the main AC power is restored, the battery will be reconnected to the charging circuit and will become available for back up service once the terminal voltage exceeds the cut-off point once again.

Connectors

Systems Connector
Line / Network Connector
Mains
DC Supply

Transmit Connector
Receive Connector
Programming Connector

Future Proof

The SR3400 has been designed to provide an integration path to modern and future radio infrastructure particularly the move to IP controlled solutions.

Options

A range of operator options are available with the SR3400 including a line interface, an IP interface, duplexor, isolator and a rack runner kit .

The SR3400 can also be used with the comprehensive range of AWCSL control solutions including conventional line based systems and IP based control options.

Specification

Power supply: 88v-264v AC 47~63Hz
Dimensions: 132(h) x 480(w) x 350(d) mm
Anodised Aluminium Case
Regulation 0.5 %
Low Noise Fan 20 dB(A)

DC Current 11.5 Amp
DC Charge Current 500 mA
DC Battery Protection Switch Off 11.5 Volts
DC Voltage adjustment 12 – 14.5 Volts

In the interests of continued development, AWCSL reserve the right to change this specification without notice.

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