



- Available in VHF, UHF, and 900MHz
- DIN Rail Mountable
- Low Current Consumption with Programmable Power Save
- Internal 512, 1200, 2400 POCSAG and FLEX Decoder
- Meets European, US, and Canadian Standards
- RS232 Serial Output
- PC Programmable

The SRT Series are a very high quality paging receiver covering the VHF, UHF & 900MHz bands. The products use a Flash processor to allow easy program upgrades or changes should they be required. The SRTs are built into a small, tough aluminium housing which can be DIN/wall mounted. Its rugged design makes it ideal for industrial applications.

Applications

The SRT Paging receivers can be used for a wide range of applications, these include; information receivers, local/wide area sign control, point and multi-point data distribution, remote control of systems and equipment, telemetry and paging site monitoring.

RS232 Serial Port

The SRT receivers have a programmable RS232 serial port that may be programmed for 1200, 2400, 4800, or 9600bps with various data and stop bits.

Programming

The SRT receivers can be programmed directly from a PC. Programmable parameters include RF channel frequency, POCSAG/FLEX address, POCSAG setup, serial port setup, and power-save functions.

RSSI

Receiver Signal Strength is measured within the receiver and the DC voltage representing the level is fed to both the internal processor and outside via the DB15 serial connector. The internal processor converts this voltage to a uV value which can be read by a host PC or microprocessor to provide link conditions during setup.

Internal POCSAG Modem

The SRT modules feature an advanced, programmable POCSAG modem offering 512, 1200 and 2400bps data rates, with FLEX under development as a flash download in the future.

External Audio Output

A buffered audio output has been provided where the internal modem is not required.

Remote Switch Application

The SRT Receivers have a programmable output, which can be programmed with a unique address for a standalone remote switch operation within a paging scheme. The switch can be operated as an ON/OFF, momentary, or timed function.

Power Save

The receivers may be powered down to reduce current consumption using the sleep mode. This can be enabled by selecting a combination of the RTS, and program enable lines.

Status LEDs

The SRT receivers have LEDs to indicate the status of the product. These include: SYSTEM, BUSY, DATA, RXD, TXD, DCD, RTS and DTR. The SYSTEM LED is used to detect any internal product error and will flash a code to indicate the error and the radio will reset. Simply count the number of flashes and look up the error code in the manual to determine the fault. If the error persists, the radio will stay in the error mode permanently.

TECHNICAL SPECIFICATIONS

Power Requirements	12V nominal (10-16VDC) or 5VDC
Number of Channels	1 programmable
Channel Spacing	25 kHz (optional 12.5, 20 or 30kHz)
Operating Temperature	-25°C to +60°C
Humidity	0 – 95% Non-condensing
Frequency Stability	< 0.2 PPM -20°C to +60°C
Construction	Aluminium Enclosure
Size	54mm W, 125mm H, 48mm D
Weight	250 grams
Connector	Serial DB15

RECEIVER

Frequency Range	SRT150R SRT280R SRT450R SRT900R	138 – 175 MHz 260 – 285 MHz 406 – 512 MHz 860 – 900 MHz
Programmable Bandwidth	SRT150R SRT280R SRT450R SRT900R	5 MHz 10 MHz 12 MHz 20 MHz
Sensitivity	Better than -120dBm for 99% decodes	
Spurious Response	> 75dB	
Blocking	> 90dB relative to 1 uV	
Intermodulation	> 60dB	
Adjacent Channel	> 65dB @ 25 kHz	
IF Frequencies	45 MHz and 455 kHz	
Spurious Emissions	< 2 nW	
Mute Response Time	< 3 ms	
Received Signal Strength (RSSI)	Range -120dBm to -40dBm Output voltage 0 – 5VDC	

PROGRAMMABLE SERIAL INTERFACE

Type	RS232 with a programmable serial baud rate of 1200, 2400 or 9600bps
Data Bits	Programmable 7 or 8
Parity	Programmable Odd, Even, or None
Stop Bits	Programmable 1 or 2

PROGRAMMABLE INTERNAL MODEM

Signaling Formats	512, 1200, and 2400 POCSAG
Under Development	FLEX and Ermes

PROGRAMMABLE ADDRESSING

Signaling Formats	512, 1200, and 2400 POCSAG
Under Development	FLEX and Ermes



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PROGRAMMABLE DATA OPTIONS

Start of text characters	None or 1
Start of text character	Keep, Delete, Insert
End of text character	None or 1
End of text character	Keep, Delete, Insert
Suppression of Nulls	On or Of

The above specifications are subject to change without notice.

SRT PAGING RECEIVER PINOUT (DB15 Serial)

1	RXD
2	TXD
3	DCD
4	DTR
5	RTS
6	GND
7	GND
8	GND
9	GND
10	RX AUDIO
11	Digital Output 1
12	Digital Output 2
13	RSSI
14	+5V
15	+12V

