



PROFESSIONAL RANGE SYNTHESISED TRANSCEIVERS

	SX150	SX450G	SX850
GENERAL			
Frequency range	125–180, 200–225 MHz	400–490 MHz	868–870 MHz
Switching bandwidth	5 or 15 or 20 or 25 MHz	15 or 20 MHz	2 MHz
Number of RF channel	up to 256 sequential - serial selected and programmed up to 80 individual - serially selected and programmed up to 64 - parallel selected and serially programmed		
Channel spacing	12.5kHz / 20kHz / 25kHz available		25kHz available
Supply voltage	5.5 to 9 V DC -ve earth	5 to 15 V DC -ve earth	5.5 to 9 V DC -ve earth
Supply current at 7.2 typical	receive 50mA transmit 400mA for HI	receive 30mA transmit 250mA for HI	receive 75mA transmit 400mA for HI
Interface connections	‘A’ version : 8-way + 12-way 1.27mm pitch Molex plugs ‘C’ version : 21-way SIL (single in-line) header		
Operating temperature	-25°C to +55°C		
Size overall	87 x 53 x 13 mm	85 x 55 x 13 mm	87 x 53 x 13 mm
TRANSMITTER			
RF output power	25-500mW (HI) 1-25mW (LO)	500mW (HI) 5mW (LO)	500mW (HI) 10-25mW (LO)
Tx / Rx switching time	<20ms	<15ms	<20ms
Modulation point	analogue 750mV peak-to-peak AC coupled digital +3 to 12V square wave DC coupled		
RECEIVER			
Sensitivity	<-115dBm for 12dB SINAD (psophometrically weighted) <-107dBm for 20dB SINAD (psophometrically weighted)		
Image rejection	>70dB		
Intermodulation rejection	>65dB		
Blocking	>84dB		
Spurious rejection	>70dB		
Intermediate frequencies	45 MHz and 455kHz		
Adjacent channel selectivity	>60dB for 12.5kHz channel spacing >70dB for 25kHz channel spacing		
Squelch type	Noise operated Squelch output NPN open collector via resistor		
General facilities	RSSI output (0 to +3V nominal from 2K2 source) squelch flag; squelch defeat; pre/de-emphasis;		