

# Radio communication specialists

## Maxon SD125E RF Link Module

- 16 Channels
- Die-cast aluminium housing
- Operates from 9V to 15V
- Fully PC programmable (Windows XP)
- 9-Pin D-type interface
- Synthesised frequency tuning
- Time out timer
- RSSI



With the Maxon guarantee of quality, performance and reliability.

The new SD125E RF link module is a new, improved version of the popular SD125. With new generation components, the module allows RF data communication between two distant points, where a wire connection is not applicable. Some of the possible applications include: Remote parking meters and barriers, Data base transferral, Remote control, Sign and Camera control and Telemetry.

The SD125E has a 9-pin D-type interface connector with 16 programmable channels, selectable via dip switch. The RF output power is 1-5Watts giving a superior range. The SD125E programmer is Windows XP compatible, and can be used with the older SD125 model.

With its modern compact design, cast aluminium housing and multi-voltage DC connection capability the SD125E provides you with the robustness and flexibility needed in remote or demanding areas.

### Technical Specifications

#### GENERAL

Channels.....	16 Dip switch selectable
Channel Spacing.....	12.5KHz, 25KHz programmable
Band.....	V2=148-174MHz U1=400-430MHz U2=440-470MHz U3=470-490MHz
Antenna Impedance.....	50Ohm
PLL Step.....	2.5KHz
Dimensions.....	117(L)x62(W)x30(D)mm
Weight.....	240g
Frequency source.....	Synthesiser
Antenna connector type.....	BNC Jack Bulkhead
Power supply.....	+9V to +15V, 12V DC Nominal
Current consumption.....	TX: >2.3A @ 5W RF output, >1A @ 1W RF output RX: >65mA Standby (muted)
Operating temperature.....	-20°C to +50°C (nominal)
Performance Specification.....	R&TTE Directive 1999/5/EC
Attack Time.....	TX to RX= <20mS (no power save) RX to TX= <20mS

#### TRANSCIEVER

Spurious emissions.....	<60dB
Modulation type.....	F3D, F3E
Modulation sensitivity.....	100mV rms @ 60% peak deviation
FM Hum n Noise.....	>40dB @ 12.5KHz >40dB @ 25KHz
RF Output Power.....	High power 5W Low power 1W

#### RECEIVER

Audio output.....	2.5V @ 600Ohms
Data output.....	250mV rms
Receiver sensitivity.....	12dB UHF: >0.28µV VHF: >0.35µV
Selectivity.....	>50dB @ 12.5KHz >60dB @ 25KHz

Figures above are typical and measured under normal operating conditions. As such they will not form part of any contract. Our policy is one of continual improvement, and we reserve the right to change product specification without prior notice.

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- Pin1..... Audio In (Data RX)
- Pin2..... Audio Out (Data TX)
- Pin3..... PTT
- Pin4..... GND (Ground)
- Pin5..... B+ (8-18 Volts DC)
- Pin6..... Carrier Detect (Squelch)
- Pin7..... N/C No Connect
- Pin8..... Switch

