

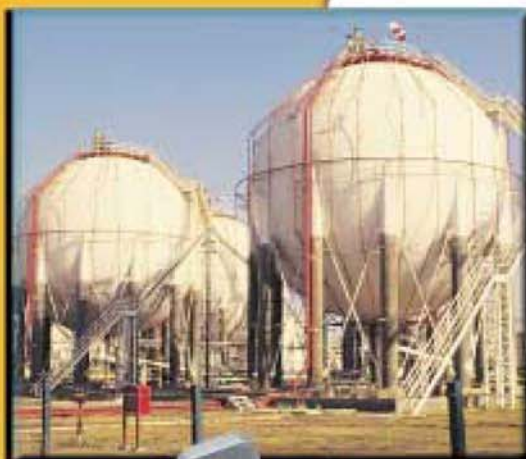
**maxon**<sup>®</sup>

VHF / UHF

**SD-125**

RF link module

## Reliable Versatility



Maxon's SD-125 RF link modules allow RF signals to be exchanged with devices like emergency assistance "call boxes", irrigation systems and electronic signs, making them perform with more reliability.

Compact size and multi-voltage DC connection capability gives the module flexibility in use. Add an external modem, and up to 1200 BPS data can also be exchanged; further extending the module's versatility in and around your World.



### **Synthesized frequency tuning**

### **9-Pin interface connector**

### **Operates from 9V to 18V DC**

Accepts many sources of DC power to permit more versatile use

### **1 or 5 Watt transmit power**

Provides good area coverage under a variety of applications

### **Programmable up to 16 channels**

A series of dip-switches selects one of 16 available operating channels

### **Programmable channel spacing**

### **Die-cast aluminum housing**

Provides mounting holes and proper heat dissipation during use

### **Time-out-timer function**

Monitors module usage to prevent excessive transmit time

# SD-125 RF link modules

## specifications

# maxon®

### general

	VHF model SD-125V	UHF model SD-125U
Frequency Range	V2: 148-174 MHz	U1: 400-430 MHz U2: 440-470 MHz
Channels	1 of 16, dip switch selectable	
Channel Spacing	30 / 25 / 15 / 12.5 kHz	
PLL Step	5.0 / 6.25 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	30 MHz
Antenna Impedance	50 Ω	50 Ω
Operating Voltage	9V - 18V DC, 12V Nominal	
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability (-30° C to +60° C)	± 5.0 ppm	± 2.5 ppm
Dimensions (H x W x D)	4-5/8" x 2-7/16" x 1-3/16" (117 x 62 x 30 mm)	
Weight	7.7 oz. (218 gm)	
FCC Identifier	V2: F3JSD125V2	U1: F3JSD125U1 U2: F3JSD125U2
FCC Compliance	Parts 22, 74, 90, 210	Parts 22, 74, 90, 210
Canada Certification Number	3772195332	3772195333A

### receiver (measurement procedures made per ANSI/TIA / EIA -603)

Sensitivity	.28 μV	.35 μV
12 dB SINAD	>50 dB @ 12.5 kHz;	
Selectivity	>60 dB @ 25 kHz	
Intermodulation	65 dB	65 dB
Spurious Response	70 dB	70 dB
Audio Output	2.5V @ 600 Ω; (Method @ <10% THD level)	

### transmitter (measurement procedures made per ANSI/TIA / EIA -603)

RF Output	5 Watt or 1 Watt (programmable per channel)	
Spurious and Harmonic Emissions	60 dB	60 dB
Modulation	11K0F3E, 16K0F3E, 19K6F3D	
FM Hum and Noise	>40 dB @ 12.5 kHz; >40 dB @ 25 kHz	
Modulation Sensitivity	100 mV RMS @ 60% peak dev.	

Specifications are subject to change without notice.

## features / functions

- Synthesized frequency tuning
- 9-Pin interface connector
- Operates from 9V to 18V DC
- Programmable 1 or 5 Watt transmit power
- Operates on 1 of 16 channels; dip switch selectable
- Programmable wide or narrow channel spacing
- Time-out-timer function
- Die-cast aluminum housing with mounting holes
- Manufactured under ISO 9002 quality standards
- FCC Certified for use in U.S.A. and its possessions and IC Approved for sale in Canada

## accessories / options

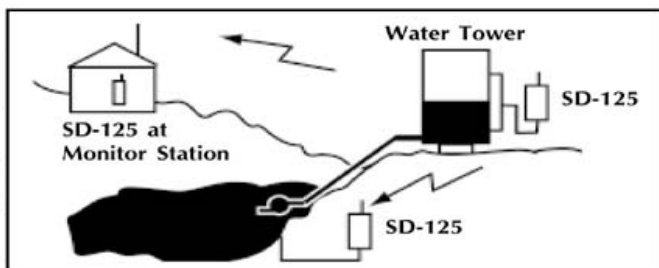
**Antennas:** VHF Antenna, 148-174 MHz, 6" uncut, BNC connector (CA-1506); UHF Antenna, 440-470 MHz, 6", BNC connector (CA-4506)

**Signaling:** CTCSS Encoder / decoder\* (SD-010); 1200 Baud modem\* (SD-FSK/Bell 202); 1200 Baud modem with built-in CTCSS encoder / decoder\* (SD-FSK/Bell 202 CTCSS);

**Expansion Lid:** Expansion lid kit (480-030-0008)

\* Requires 480-030-0008 Expansion Lid kit for use with SD-125 modules

**EVQI** ISO 9002  
Certification



For more information, contact:

**HB** Wireless  
Sales & Service Pty. Ltd.  
ABN 67 118 987 090

Address: 202 Whitford Road, Green Valley, N.S.W 2168, AUSTRALIA.  
Phone: +61 2 9608 5943 Fax: +61 2 9608 4262  
Mobile: +61 418 431752  
Email: sales@hbwireless.com.au or hblyster@gmail.com  
Website: www.hbwireless.com.au or www.vytl-maxonvn.com.vn