

SD-671D V2 VHF RF Data Modem (150-174 MHz)
SD-674D U2 UHF RF Data Modem (410-470 MHz)



- Power Output Programmable Per Channel:
10/5/1W for VHF, 5/1W for UHF
- DMR Tier II TDMA/Analog
- 32 Channels (Dip Switch)
- 9V to 24V DC Operation
- RF Communication Data Speed 9600bps (OTA)
- Digital Voice uses AMBE+2 Voice Codec
- DE-15 Pin Female Connector, TTL Serial
- Built-In AT Commands
- AES 256-Bit Encryption (AES-CTR)

Applications

Water/Waste Treatment Plants
Oil and Gas Field SCADA
Security/Alarm Systems
Siren Control
Gate Systems
Sign Control
Weather Monitoring
Irrigation Systems
Voice/Emergency Call Boxes
Remote Controls & Switches



Maxon's SD-670D Series of Radio-Frequency data modems are rugged, reliable, and designed for a variety of RF applications in either Digital or Analog mode like SCADA, Call boxes, Weather stations, Water pumps, Remote Controls, and can even be used together with another SD-670D to make a Low Power Repeater. AES-256-Bit Encryption for NSA-Level security on both voice and data communication; Encryption feature is compatible with other Maxon radios that have AES Encryption.

SD-670s incorporate Maxon's popular mechanical footprint and a BNC antenna connection. Its die-cast aluminum housing shields the radio from RF interference and gives exceptional durability in the most extreme environments. Transmit power settings between 1W, 5W, and 10W* (*VHF only) provide the power needed for any job and the LED indicator gives an instant, on-sight status of the radio's operation. Reduce the operating power needed for this device with the Power Save* feature in SD-670's programming software.

The SD-670 is durable, secure, and versatile. It is the ideal radio for the harshest of system demands.

Whether implementing a new system or installing into an existing system, the Maxon family of data telemetry radios has been the choice of OEM and end-users worldwide for over 35 years.

SPECIFICATIONS

GENERAL

| | |
|----------------------------------|--|
| SD-671D V2 | 150-174 MHz |
| SD-674D U2 | 410-470 MHz |
| Channels | 32 (Dip Switch)/AT Commands |
| Power Requirement | 9V-24V DC, 12V nominal |
| Current Drain (Digital & Analog) | D: Tx Hi: 1, Tx Lo: 0.6A, Stdy 115mA* A: Tx Hi: 1.6, Tx Lo: 1A, Stdy 115mA* |
| Channel Spacing | 25/20/12.5 kHz (Analog) 12.5 kHz (Digital) 2 Time Slots of 6.25 Each |
| Dimensions (L/W/H) | 4.77 x 2.44 x .96" (110x55x25 mm) |
| Weight | 9.9 oz. (280 g.) |
| LED Status | Green = Rx, Red = Tx |

TRANSMITTER

| | |
|-------------------------|---|
| Output Power | 10/5/1W for VHF, 5/1W for UHF |
| FM Modulation | 11K0F3E (12.5 kHz), 14K0F3E (20 kHz), 16K0F3E (25 kHz) |
| 4FSK Digital Modulation | 12.5 kHz Data Only: 7K60FXD, 12.5 kHz Data & Voice: 7K60FXE |
| FM Hum and Noise | >40dB (12.5 kHz), >45dB (25 kHz) |
| Spurious Emissions | -36dBm |
| TX Attack Time | <5ms |
| Adj. Channel Power | -70dB (25 kHz), -65dB (12.5 kHz) |
| Audio Response | 300Hz - 3 kHz +1, -3dB (25 kHz) 300Hz - 2.55 kHz +1, -3dB (12.5 kHz) |
| Digital Vocoder Type | AMBE3000 Vocoder Chip with AMBE+2 Voice Compression Algorithm |
| Digital Protocol | ETSI-TS102 361-1-2-3 |

RECEIVER

| | |
|------------------------------|------------------------------------|
| Sensitivity (Analog) | 0.25µV @ 12dB SINAD |
| Sensitivity (Digital) | 0.22µ V/BER 5% |
| Selectivity TIA-603 ETSI | >65dB (12.5 kHz), 70dB (20/25 kHz) |
| Intermodulation TIA-603 ETSI | >70dB (12.5/20/25 kHz) |
| RX Hum/Noise | <5% |
| Spurious/Rejection | >70dB |
| Lock Time | <5ms |
| Audio Output Power | 0.5 Watt @ 8 ohms |

PACKAGE INCLUDES:

Radio Only.

Specifications are subject to change without notice.

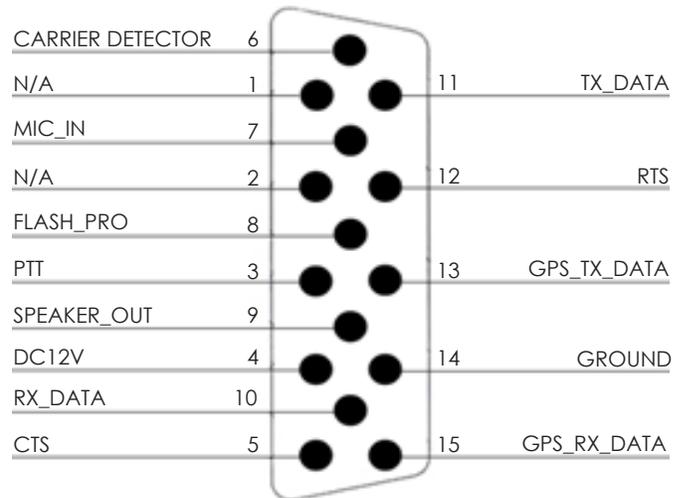
ACCESSORIES



ACCESSORY OPTIONS

BNC 6" Antenna VHF/UHF
Magnetic Mount w/Wave Antennas
PC Programming Software and Cable (USB)
Aluminum Pin Style Heat Sink

DE-15 PIN CONNECTOR



ENVIRONMENTAL

| | |
|-----------------------|--------------------------------|
| Operating Temperature | -22° to 140° F (-30° to 60° C) |
| TX Duty Cycle | 50% @ Temp Range Listed |

| Approvals | FCC | Industry Canada |
|------------|------------|-----------------|
| SD-671D V2 | VSOMD-100D | 184A-MD-100D |
| SD-674D U2 | VSOMD-400D | 184A-MD-400D |

NOTE: Some features indicated by specifications listed are prohibited by FCC rule and are not available on models sold in the U.S. or its territories.



Manufactured to ISO-9002:2000 quality standard.

maxon®

Maxon America, Inc.

11535 W. 83rd Terrace Lenexa, KS 66214

Tel: (800) 456-2071 - Tel: (913) 859-9515

Fax: (913) 859-9550

Web: www.maxonamerica.com

E-mail: maxon@maxonamerica.com