

SD-271 V2 5/1W VHF (136-174 MHz)

SD-274 U1 5/1W UHF (400-440 MHz)

SD-274 U2 5/1W UHF (430-470 MHz)

SD-274 U3 5/1W UHF (450-490 MHz)



- 5/1 Watt
- LED Status Indicator
- 16 Channels (Dip Switch Select)
- Modem Options *(GMSK/4FSK)
- Supports 19200 bps Data Rate
- CTCSS/DCS Encode/Decode
- DE-15 Pin Female Connector
- 12.5/25 kHz Channel Spacing
- External Software Channel Steering
- 6 Programmable Squelch Levels
- Variable Speaker Output

Applications

Water/Waste Treatment Plants
Oil and Gas Field SCADA
Security/Alarm Systems
Gate Systems
Remote Controls
Sign Control
Automatic Vehicle Location
Murphy/Kill Switches
Weather Monitoring
Irrigation Systems
Emergency Call Boxes
Low Power Repeaters



The Maxon SD-270 Series of radios are durable, reliable and designed to meet the needs for a variety of wireless applications. Include the optional GMSK (9600 Baud Rate) or the 4FSK (19200 Baud Rate) modem boards to add even more diversity to this cost effective radio.

The modules incorporate the most requested mechanical footprint and BNC antenna connection. Transmit power settings from one to five provide the power needed on any job and the LED indicator gives instant on-sight status of the radios operation. Combine that with low current drain and fast transmitter/receiver attack times for operation in the harshest of system demands. The die cast aluminum cabinet/lid provides resistance to RF interference; and gives exceptional environmental durability in the most extreme conditions.

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

*ACC-213 GMSK 9600 Baud
ACC-214 4FSK 19200 Baud

SPECIFICATIONS

GENERAL

| | |
|-----------------------|----------------------------------|
| SD-271 V2 | 136-174 MHz |
| SD-274 U1 | 400-440 MHz |
| SD-274 U2 | 430-470 MHz |
| SD-274 U3 | 450-490 MHz |
| Channels | 16 (Dip Switch) |
| Channel Spacing | 12.5/25 kHz |
| PLL Channel Step | 2.5, 5, 6.25 kHz |
| Power Requirement | 9-18 V DC, 12V nominal |
| Current Drain | Tx Hi: 2.0, Tx Lo: 1A, Stdy 65mA |
| Operating Temperature | -22° to 140° F (-30° to 60° C) |
| Dimensions (L/W/H) | 4.6 x 2.4 x 1.4" (117x62x35 mm) |
| Weight | 9.4 oz. (267 g.) |
| LED Status | Green - Receive |
| | Red - Transmit |
| TX Duty Cycle | 35% @ Temp Range Listed |

TRANSMITTER

| | |
|---------------------|--------------------------------------|
| Output Power | 5~1 Watt Programmable |
| FM Hum and Noise | >40dB (12.5 kHz), >45dB (25 kHz) |
| Spurious Emissions | -36dBm |
| TX Attack Time | <5 ms |
| Frequency Deviation | <5 kHz (25 kHz), <2.5 kHz (12.5 kHz) |
| 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) |

RECEIVER

| | |
|--------------------------|-------------------------|
| Sensitivity (12dB Sinad) | <-119dB Extreme <-115dB |
| Image Rejection | >70dB |
| Intermodulation | >65dB |
| RX Hum/Noise | <5% |
| Spurious/Rejection | >70dB |
| Lock Time | <5ms |
| Audio Output Power | 0.5 Watt @ 8 ohms |

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.

Specifications are subject to change without notice.

Not available in Canada.

SD-274 U1 and U2 models not available in US.

ACCESSORIES



ACCESSORY OPTIONS

BNC 6" Antenna VHF/UHF

ACC-213 GMSK (9600 25 kHz, 4800 12.5 kHz) Baud Modem

ACC-214 4FSK (19200 25 kHz, 9600 12.5 kHz) Baud Modem

PC Programming Software and Cable (USB)

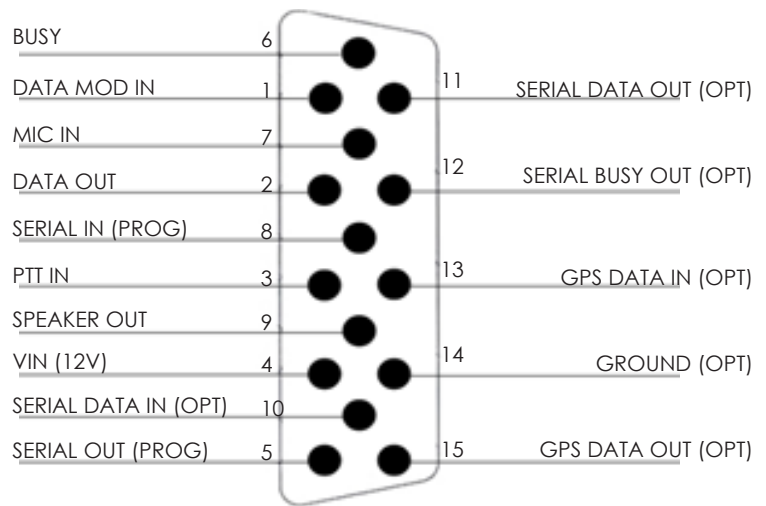
Heat Sink

RS-232 Interface/Alignment Board

PACKAGE INCLUDES:

Radio Only

DE-15 PIN CONNECTOR



| Approvals | FCC | RCM |
|---------------------|-------------|-----|
| SD-274 U3 | UU3FC302U2 | Yes |
| SD-274 U3 w/ACC-213 | UU3FC302U2D | Yes |
| SD-274 U3 w/ACC-214 | UU3FC302U2F | Yes |
| SD-271 V2 | UU3FC302V | Yes |
| SD-271 V2 w/ACC-214 | UU3FC302VD | Yes |
| SD-274 U1 | N/A | Yes |
| SD-274 U2 | N/A | Yes |



CE22000



Manufactured to
ISO-9002:2000 quality standard.

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