



SSFM-100-UHF WIRELESS MODEM

- Serial Interface Port
- USB Interface Option
- Standard Connector Type: DB-9
- IO Voltage Levels RS-232, RS-485, RS-422 (user selectable)
- RX and TX data Transparent Async
- Word length 7 or 8 bits
- Format N, O, or E
- Modem handshake signals RTS, CTS, CD

FEATURES

Long-range narrow-band UHF data radio modems. Exceeding all FCC part 22 and 90 requirements, it features: 1/2-5 watts of RF output in the 450-480MHz (other bands available), range of 5-50 miles, ultra-fast T-R switching time of 3mS, store-and-forward repeater capability, remote “Ping” capability, voltage, temperature, and current monitoring, and RS232/422/485 interfaces available.

Perfect for SCADA, remote control, telemetry, mobile-data, and AVL applications.

ENVIRONMENTAL DATA	
RX sensitivity 4800 bps (.1% BER)	< -116dBm
RX sensitivity 4800 bps (.1% BER)	< -108dBm
RX sensitivity 1200 bps (.1% BER)	< -118dBm
RX intermodulation rejection	-70dB

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Frequency Bands Available	
403-434MHz	RV-M7-UA (not for use within the US)
419-440MHz	RV-M7-UB (not for use within the US)
450-480MHz	RV-M7-UC
470-512MHz	RV-M7-UD (not for use within the US)
Transmitter	
RF Power Output	500mW – 5.0 W programmable
Maximum Duty Cycle	100% @ 2W to 40C, 25% @5W (100% w/ optional heatsink)
Frequency Deviation	± 2.2kHz (-N) ± 3.5kHz (-W)
RF Bandwidth	20MHz no-tune
Occupied bandwidth	11 kHz (-N) 16kHz(-W)
TX Spurious outputs	< -70dBc

MECHANICAL DATA	
Size	4.60" X 2.60" X .956 (11.7cm X 6.6cm X 2.43cm)
Weight	6 ounces (0.17kg)

ELECTRICAL DATA	
DC Input Voltage	10-16V DC

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

Rev. D