



FC-302

VHF/UHF Data Radio



Key Features

- Programmable 1W~5W Output Power
- 12.5KHz/25KHz Channel Spacing
- Programmable 16 Channels
- Fast Start-up Time: 5ms
- CTCSS/DCS Encode/Decode
- Pocsag Support
- Digital SQ Programmable Via PC
- LED Status Indicator
- Time Out Timer
- FCC,CE & AS/NZS Certified

Product Information

FC-302 is a PLL synthesized 5-watt FM transceiver module, which is designed for data transmission and voice communication. It can support pre-emphasis, squelch, CTCSS/DCS and audio amplifier. Two-point modulation technology makes for good low frequency response and POCSAG application possible. The radio has a fast start-up time and makes it a competitive choice for 1200-19200bps Rate data applications. Compact dimension and wide range DC support make it flexible to use.

Interface Description

Pin1	Audio in	Pin9	Speaker/pocsag
Pin2	Audio out	Pin10	RXD(modem)
Pin3	PTT	Pin11	TXD(modem)
Pin4	13.8V DC	Pin12	CD_OUT(modem)
Pin5	Prog Data Out	Pin13	NC
Pin6	Busy	Pin14	Ground
Pin7	MIC IN/RSSI	Pin15	NC
Pin8	Prog Data In		



DB15 FEMALE

Technical Specifications

General

Frequency Range:
VHF: 136-174MHz
UHF: 400-440MHz, 430-470MHz, 450-490MHz
Channel Spacing: 12.5 KHz/25KHz
Channel Capacity: 16
Optional Modems:
FSK-V23/Bell 202: 1200 bps
4FSK:9600/19200 bps
GMSK:9600 bps
Input Power Range: 9.5V-16V DC
12V DC (Nominal)
Operating Temp: -30°C to +65°C
Storage Temp: -40°C to +80°C
Dimensions: 63x122x32mm (LxWxH)

Transmitter

Output Power: 1-5W (Programmable)
Modulation Type: F3D/F3E
TX Current:
5W RF Power, 12V, 1.5A
1W RF Power, 12V, 1A
Standby (Muted) Current: 65mA
TX Attack Time: < 5ms
Frequency Deviation:
< 5KHz (25KHz)
< 2.5KHz (12.5KHz)
Audio Response:
300Hz~3kHz +1/-3dB (25kHz)
300Hz~2.55kHz +1/-3dB (12.5kHz)

Receiver

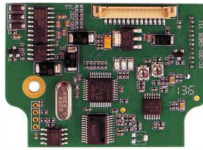
Adj. Channel Power: <-70dBc (25KHz), <-65dBc (12.5KHz)
TX SNR: >45dB (25KHz), >40dB (12.5KHz)
RX Sensitivity (12 dB Sinad): <-119dBm Extreme, <-115dBm
Intermodulation: >65dB
Audio Output Power: 0.5W @ 8Ω
RX Audio Distortion: < 5%
Image Rejection: > 70dB
Spurious Rejection: > 70dB

Data Modem of FC-302



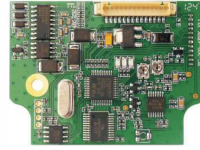
FC-302-FSK

Modulation: FSK
Data Rate:1200bps



FC-302-GMSK

Modulation: GMSK
Data Rate:9600bps



FC-302-4FSK

Modulation: 4FSK
Data Rate:9600/19200bps

- Serial Interface:TTL/RS-232/RS-485(8N1)
- Supply Voltage:DC +12.5V
- Data Transmission Mode:Transparent

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