

WD889/WD250 Multi Channel FM Tranceiver & Wireless Modem

----Fully compatible with NISSEI's radio(Rainbow) and GrandComm's radio

WD889:25W



Size: (L x W x H)137x135x44mm

WD250:20W



Size: (L x W x H)124.7x76x34mm

MD1200 MODEM



- ◇ Data transmission mode: Transparent
- ◇ Modulation mode: FSK(f1=1.3KHz f2=2.1KHz)
- ◇ Transmission rate: 75-1200bps self-adaption
- ◇ BER: 10⁻⁷(S/N=20dB)
- ◇ Communication interface: RS232/RS485/TTL
- ◇ Temperature: -40°C ~ +70°C
- ◇ Voltage: DC+7 ~ +15V or +5V
- ◇ Current: RS232: <30mA; RS485: <60mA
- ◇ Installation size: 59.5 x 39.3mm
- ◇ Adapter model: 250A/WD889/WD886 etc

MD4800 MODEM



- ◇ Data transmission mode: Transparent/Intelligent
- ◇ Modulation mode: FFSK
- ◇ Wireless transmission rate: 1200/2400/4800bps
- ◇ Interface transmission rate: 1200/2400/4800/9600bps
- ◇ Address code/Data format: Programmable setting
- ◇ BER: 10⁻⁷(S/N=20dB)
- ◇ Communication interface: RS232/RS485/TTL
- ◇ Temperature: -40°C ~ +70°C
- ◇ Voltage: DC+7 ~ +15V or +5V
- ◇ Current: RS232: <30mA; RS485: <60Ma
- ◇ Installation size: 59.5 x 39.3mm
- ◇ Adapter model: 250A/WD889/WD886 etc

MD19200 MODEM



- ◇ Data transmission mode: Transparent/Intelligent
- ◇ Modulation mode: GMSK/CPFSK
- ◇ Wireless transmission rate: 9600/19200bps
- ◇ Interface transmission rate: 1200/2400/4800/9600/19200bps
- ◇ Address code/Data format: Programmable setting
- ◇ BER: 10⁻⁷(S/N=20dB)
- ◇ Communication interface: RS232/RS485/TTL
- ◇ Temperature: -40°C ~ +70°C
- ◇ Voltage: DC+7 ~ +15V
- ◇ Current: <40mA
- ◇ Size(L x W): 60 x 50mm
- ◇ Adapter model: 250A/889/886/250G/258G etc

MD38400 MODEM



- ◇ Data transmission mode: Transparent/Intelligent
- ◇ Modulation mode: GMSK/CPFSK
- ◇ Wireless transmission rate: 38400bps
- ◇ Interface transmission rate: 38400bps
- ◇ Address code/Data format: Programmable setting
- ◇ BER: 10⁻⁷(S/N=20dB)
- ◇ Communication interface: RS232/RS485/TTL
- ◇ Temperature: -40°C ~ +70°C
- ◇ Voltage: DC+7 ~ +15V
- ◇ Current: <40mA
- ◇ Size(L x W): 60 x 50mm
- ◇ Adapter model: 250A/889/886/250G/258G etc

WD889/WD250 FM Tranceiver /Data Radio Technical Specification

◆ General specification

Project	Specification	
Frequency Range	220.00 ~ 240.00MHz	
Storage Channel	48channel, half duplex	
Channel Spacing	25KHz/12.5KHz	
Bandwidth	20MHz (In this frequency bandwidth to ensure that the indicators)	
Modulation Format	16K0F3D(E)	
Operating Voltage	+13.8(Between +10V ~ +16V to ensure the normal work.)	
Antenna Impedance	50Ω	
Loudspeaker Impedance	8Ω	
Transmitter Start Time	≤5ms	
Temperature Range	-40°C ~ +70°C	
Size	WD889:44.0x135x137mm	WD250:124.7X76X34mm
Weight	WD889:720g	WD250:365g

◆ Transmitter

Project	Specification	
Radio Frequency Output Power	WD889: 2W/5W/10W/15W/25W (Programmable setting)	
	WD250: 1W/2W/5W/10W/20W (Programmable setting)	
Clutter Emission	≥70dB	
Maximum Modulation Frequency Offset	±5KHz	
Audio Harmonic Distortion	≤2%	
MIC Modulation Sensitivity	3.5 ~ 14mV	
Data Signal Modulation Frequency Offset	(Input signal: 1KHz、250mV) ±4KHz	
Frequency Stability	±1.5ppm(-30°C ~ +70°C)	
Emission Time Limit	30 ~ 1200S	
Emission Current	WD889 25W: ≤4.5A	
	WD250 : ≤1.6A (13.8V、10W)	≤3.2A(13.8V、20W)
Noise And Hum	≥45dB	

◆ Receiver

Project	Specification
Sensitivity	≤0.20μV(12dB SINAD)
Stray And Mirror Resistance	≥75dB
Adjacent Channel Selectivity	≥70dB
Intermodulation Resistance	≥70dB
Snr	≥50dB
Audio Output Power	1.3W (8Ω 10% distortion)
Distortion Rate	≤4%(When output power is 1W)
Current	≤55mA
Data Signal(Rfsk)	180±20mV

◆ Data transmission part

Project	Specification
Communication Interface	RS232、RS485 or TTL
Communication Interface Definition	CD,RXD,TXD,RTS,DTR,CTS,GND
Transmission Rate	300-1200bps self-adaption, or 1200/200/4800/9600/19200Programmable setting
Modulation Mode	FSK/FFSK/MSK/GMSK
Address Code	Self address code & Common address code(Programmable setting)
Relay Function	Please refer to the company for the use of this function
Ber	≤10 ⁻⁵ @-107dBm2400bps

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