

Eclipse1 Series

1RU Base Station Range

Features

- Flexibility of Tx/Rx combination provides simplex/half duplex/duplex configuration.
- Easy programming and monitoring user interface: ServiceMonitor software.
- High sensitivity and outside band rejection.
- Output stage protection at high VSWR or high temperature.
- Various audio and control interfaces.



"Leading the evolution of radio's next generation".

Overall Specification	
Frequency:	66-88MHz 136-174MHz 215-240MHz 350-520MHz 800-940MHz
Modulation	Analog FM
Channel Spacing	25kHz / 12.5kHz
Programmable Channels	100
VCO Control	Synthesized Phase - Lock loop
Voltage	13.8 VDC
Temperature	-30° C ~ +60° C
RF Connector	50 ohm N type (TX) / BNC or N type (RX)
Size	1U 19 inch rack mount 483mm x 360mm X 45mm (WXDXH)
Weight	5.25kg
Receiver Specification	
Sensitivity	0.25uV @12dB 0.35uV @20dB
Frequency Stability	1ppm UHF, 2.5ppm VHF
Selectivity	80dB (25kHz) / 70dB (12.5kHz)
Spurious Rejection	90dB
Intermodulation	80dB
Deviation Acceptance	7.5kHz / 3.75kHz
Noise Squelch	6 ~ 26dB
Carrier Squelch	1 ~ 200uV
Audio Frequency Response	+1 ~ -3dB (EIA603)
Audio Output	-10dBm ~ +10dBm, 600ohm 0.3V ~ 1.5VRMS, unbalanced 0.3V ~ 2.0VRMS discriminator 3W, 4ohm speaker
Distortion	less than 3%
COS Output	opto12V, 0v output or floating switch
Transmitter Specification	
Output Power	5W ~ 25W
Frequency Stability	1ppm UHF, 2.5ppm VHF
Spurious Rejection	80dBc
Hum and Noise	50dB
FM Deviation	5kHz / 2.5kHz
Audio Input Level	-20dBm ~ +10dBm
Audio Frequency Response	+1 ~ -3dB (EIA603)
Audio Interface	Line 600ohm, HiZ 10k ohm
Distortion	Less than 3%

