

MtRF-4100 Series Radio Direction Finder (RDF) Systems



KEY FEATURES:

- High Dynamic Range
- SDR Technology
- Simple To Operate
- Improved Detection
- I/Q Outputs up to 384 kHz
- More Actionable Intelligence

The **MtRF-4101** is an integrated software defined receiver (SDR) and Direction Finder (DF) processor. By combining the receiver and DF processor onto a single PC board, size is reduced and reliability is increased. The combination of a powerful processor and numerous I/O ports allow the unit to generate drive signals for a variety of DF antenna types and to perform Line-Of-Bearing (LOB) calculations at a very high rate. DSP algorithms insure that indicated bearings are as accurate as possible even under marginal signal conditions.

The DF Antenna integrates three sets of elements into a single radome enclosed assembly allowing for simple mounting and dismounting. Vehicle rooftop mounting is supported.

MtRF-4100 SERIES OVERVIEW

- Forward I/Q data directly to a host computer for post processing
- Wideband DF capability in a small form factor
- Compact and highly integrated
- Available covert DF antenna options
- Forward I/Q data directly to host computer for post processing or recording
- Available Krypto software for SIGINT signal identification and decryption

WHAT HAVE YOU BEEN MISSING?

Many radios claim to have great sensitivity, but that often comes at the price of masking weak signals when strong signals are also present. How many weak intercepts have you not identified and critical intelligence not obtained? The MtRF-4100's powerful **Dynamic Range** allows you to detect and monitor RF Signals, you never knew existed.

What have you been missing?

PLEASE CALL OR EMAIL WITH YOUR INQUIRY:

Mountain RF Sensors, Inc.

1-954-968-6566 • Info@MountainRF.com
2962 NW 60th St., Fort Lauderdale, FL 33309 USA



MtRF-4100 Series

Radio Direction Finder (RDF) Systems

Specifications

| | |
|-----------------------|--|
| DF Sample Rate | 80 Hz |
| LOB Averaging | 1 - 100 |
| Instrument resolution | 0.1 degree |
| Instrument Accuracy | +/-1 degree |
| Antenna Dimensions | W30" x L30" x H18" |
| Frequency Range | 2 MHz to 1000 MHz (HF/VHF/UHF) |
| Frequency tolerance | 1 ppm over temperature range |
| Min. frequency step | 1 Hz |
| Receiver Sensitivity | -128 dBm @ 1 KHz bandwidth |
| Dynamic Range | 120 dB |
| Image rejection | 80 dB minimum |
| Modulation type | AM, FM, USB, LSB, CW |
| Comm ports | USB, RS-232 & 10/100 Mbit/s Ethernet |
| RF connector | BNC |
| Power input | 9.5 to 18.0 Volts, 20 Watts or 100-250 VAC, 50/60 Hz |
| Temperature range | 0 to +50 C. |
| Weight (with antenna) | 25 lb. |
| Comm ports | USB, RS-232 & 10/100 Mbit/s Ethernet |
| RF connector | BNC |
| DF Antenna Type | 3-Bay 18-element Auto-Select (6 elements per bay) MtRF Smart Antenna Technology (AutoDetect and Sync) |
| Model Number | Frequency Ranges |
| MtRF-4101 | 2 - 1000 MHz |
| MtRF-4102 | 30 - 1000 MHz |

These models are also available in a 19" 1U package ("-R" suffix)

What have you been missing?



MOUNTAIN
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