



MIRI RD2006 RTU & RADIO



The Miri RD2006 RTU is an all in one telemetry module that incorporates PLC functionality with an on board radio modem and data logging facilities.

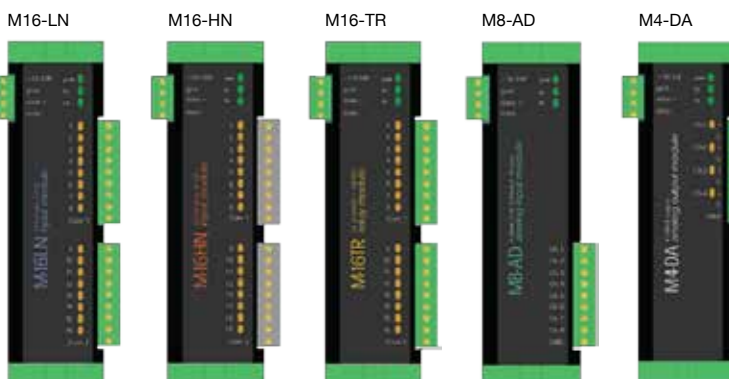
It is an extension of the proven AD2006 RTU that includes the Radtel RDCMP protocol.

This RTU is able to operate on any existing Radtel analog or digital Radio network as well as communicate using DNP3!

PRODUCT HIGHLIGHTS

- Certified Radtel RDCMP Compliance
- Extended Radtel RDCMP features including Starts/Runtimes, Store Forwarding and Peer to Peer transfers!
- Internal Radio capable of communications on Radtel RDCMP networks!
- DNP3 Protocol Capable for upgraded networks
- Digital or Analog Radio Networks
- Cost competitive product with inbuilt I/O to suit most applications.
- Ethernet including RDCMP over ethernet.

RD2000 IO EXPANSION MODULES



TECHNICAL SPECIFICATIONS

DIGITAL INPUTS

Two input voltage ranges are available:

- 10-35VAC/DC RD2006x-Lx-xx
- 70-130VAC/DC RD2006x-Hx-xx

PULSE COUNTERS

The first two digital inputs can be configured as pulse counters to 5KHz. All digital inputs can count to 5Hz

DIGITAL OUTPUTS - 4

The digital outputs are configurable as either isolated relays or transistor outputs.

- Isolated relays - 2 form A + 2 form C
- 2A @ 30VDC/240VAC
- Transistors - 100mA sinking - 35V max

ANALOG INPUTS - 8

There are 8 analog input channels, 4 of which may be used as analog outputs with the plug-in 4 channel analog output option. Channel 8 can also be configured internally to monitor the DC supply to the module. All input channels are configurable as either:

- 4-20mA / 1-5V Resolution - 12 bits
- 0-20mA / 0-5V Accuracy - 0.1%
- 0-1V Linearity - 0.1%

ANALOG OUTPUTS - 4

The last four analog channels can be configured as outputs by installing the plug-in 4 channel analog output option.

- Output format 4-20mA
- Resolution - 16 bits
- Accuracy - 0.1%
- Linearity - 0.1%

I/O EXPANSION MODULES

The field I/O of the RD2006 can be expanded up to 512 points by means of the range of I/O expansion modules available. These are DIN rail mounting units and up to 32 modules can be driven from the RS485 port of the RD2006. This means that they can be remote from the RD2006 module within normal limits of RS485 communications. Modules available:

- M16-LN 16 Digital Inputs 10-35VAC/DC
- M16-HN 16 Digital Inputs 70-130VAC/DC
- M16-TR 16 Relay Outputs 2A@ 30VDC/240VAC
- M8-AD 8 Analog Inputs 4-20mA/1-5V, 0-1V
- 0-20mA/0-5V

PLC CONTROL LOGIC

IEC61131.3 Ladder Diagram

COMMUNICATIONS PORTS - 5

The RD2006 has five serial communications ports which support a number of communications formats and industrial standard protocols. Port 1 is normally used by the internal data radio, or connected to an external radio or modem.

- Port 1 - Internal or external connection via either FFSK to 4800baud or RS232 to 115kB
- Port 2 - RS232 to 115kB
- Port 3 - RS485 to 115kB
- Port 4 - USB 2.0 Programming Port
- Port 5 - Ethernet 10/100Mb/s or RS232 to 115kB

RADIO and MODEM OPTIONS

There is an extensive range of data radios and modems available for the RD2006 modules. These include VHF, UHF, Spread Spectrum and Ethernet. See the radio specifications sheet for further details.

COMMUNICATIONS PROTOCOLS

RD2006 supports a number of industrial standard protocols including:

- Allen Bradley DF1
- DNP3.0
- GE-Fanuc/Koyo CCM
- Modbus RTU/ASCII
- Modbus TCP
- OPC Server
- Rad-tel Data Communications Protocol (RDCMP)
- Drivers for other third party devices are also available

DATALOGGING

1Mbyte Flash on-board memory. Logging may be scheduled or event driven up to 100,000 time-stamped readings.

OPERATING TEMPERATURE

-20 to +70°C

POWER SUPPLY

12 or 24VDC versions available. Power consumption - typical:

- Without on-board radio - 1W
- With on-board radio - Receive only - 2.5W
- Transmit - 20W max

WEIGHT

- With internal data radio or modem - 960g
- With no internal radio - 650g

DIMENSIONS

202 x 178 x 60 mounting plate supplied

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