

MNRPA24/60* & MNRPA18/45*

1. Usage Information

Front Panel LEDs

Front panel mounted LED indicators have been included for each of the hot-swappable power supply modules to indicate DC power supply status. Their meanings are as follows:

Green LED on – normal operation

Green LED off – power supply failure

Control Port

The MNRPA24/60* & MNRPA18/45* provide the ability to remotely monitor the power supply modules via the ALARM port. In order to communicate with the MNRPA24/60* & MNRPA18/45*, the following communications parameters must be in effect:

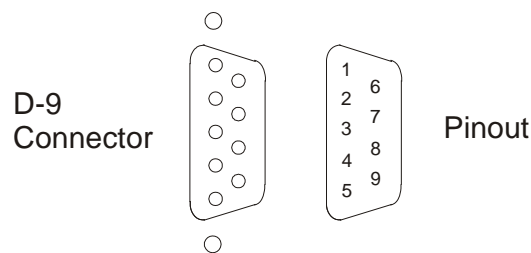
Baudrate - 19200 bps

Data - 8 bits

Parity - none

Stop - 1 bit

Pinouts for the ALARM port are as follows:



Pin 1 - DC common

Pin 2 - not used

Pin 3 - Noninverting TX

Pin 4 - Noninverting RX

Pin 5 - DC common

Pin 6 - Inverting TX

Pin 7 - not used

Pin 8 - not used

Pin 9 - Inverting RX

2. Remote Monitoring Interface – RS 422

The MNRPA24/60* & MNRPA18/45* can be monitored remotely via the ALARM port by issuing simple commands from a PC-based command line or terminal interface. Currently, the remote monitoring protocol offers 3 different commands which allow you to perform such actions as:

- a) inquire about the operational status of the power supplies
- b) retrieve information about the firmware version
- c) clear active power alarms that have occurred

Commands

The specific command types that can be issued to the MNRPA24/60* & MNRPA18/45* are:

- SA1 Request the current status of the power supply module(s) at address A1
- FA1 Retrieve the CPU card firmware version at address A1
- CA1 Clear an active alarm at address A1

The unit address is set via two rotary switches which are accessible from a top panel access hole. The address range is 00 to FF (max. of 256 units). The factory default address is set to A1.

To issue one of these commands, simply type the three character command in the terminal interface or command line interface window. The MNRPA24/60* & MNRPA18/45* will respond with a single line response that reflects the desired status/action.

Each response line has the following basic structure:

<command echo>,<response>

where:

<command echo> echoes the same command that was entered
<response> is comprised of two numeric characters that reflect the desired status/action

In addition to response lines received as a result of user-specified commands, the MNRPA24/60* & MNRPA18/45* may also generate alarm messages as a result of a power supply module failures. A response of this type has the form:

A<unit address>,<response>

where:

<unit address> is the unit address of the MNRPA24/60* & MNRPA18/45* modules.
<response> is comprised of two numeric characters that reflect the operational status of the power supply modules

Alarm messages will be generated immediately in response to a failure condition and will be received every 2 seconds until the alarm is cleared (via the "Cxx" command) or until the failure condition is reset, restored, or repaired. Note that once an alarm is cleared, it will no longer be received, regardless of whether the condition that caused the alarm was remedied or not.

Examples

Request current status from unit at address **A1**.

Data sent to unit at address A1:	SA1		
Data received from unit at address A1:	SA1,11	Power supply 1 good	Power supply 2 good
	SA1,10	Power supply 1 good	Power supply 2 fail
	SA1,01	Power supply 1 fail	Power supply 2 good

Alarm message from unit at address **A1**.

Data received from unit at address A1:	AA1,10	Power supply 1 good	Power supply 2 fail
	AA1,01	Power supply 1 fail	Power supply 2 good

Clear active alarm message from unit at address **A1**.

Data sent to unit at address A1:	CA1
Data received from unit at address A1:	CA1,Alarm Clear

Request firmware version from unit at address **A1**.

Data sent to unit at address A1:	FA1
Data received from unit at address A1:	FA1,FIRMWARE VER 001

* F for 75 Ohm F connectors, B for 75 Ohm BNC connectors and Q for quick disconnect terminal blocks.

Service & Support

Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX Customer Service to obtain a valid RMA number for any ATX products that require service and are in or out-of-warranty before returning a failed module to the factory.

ATX Networks
1-501 Clements Road West
Ajax, ON L1S 7H4 Canada

Tel: (905) 428-6068
Toll Free: (800) 565-7488
Fax: (905) 427-1964
Toll Free Fax: (866) 427-1964
Web: www.atxnetworks.com
E-mail: support@atxnetworks.com

Warranty Information

All of ATX Networks' products have a 1-year warranty that covers manufacturer's defects or failures.



1-501 Clements Road West, Ajax, ON L1S 7H4 Canada
Tel +1 (905) 428-6068 Toll Free +1 (800) 565-7488 Fax +1 (905) 427-1964 Toll Free Fax +1 (866) 427-1964
www.atxnetworks.com support@atxnetworks.com