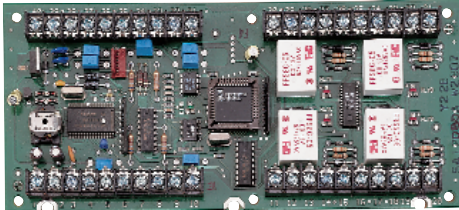


# QRM

The Quad Relay Module (QRM) provides additional output functions for the Northern PassPoint Access Control System. It has four form C, supervised output relays. The QRM also provides four trigger outputs. Potential applications for these additional outputs include:



- Elevator control
- Operate valves or annunciators
- Lighting and HVAC
- Signal a foreign security system by shorting a zone
- Other control functions

## BENEFITS

- PassPoint supports a total of 8 Quad Relay Modules per system
- Four form C supervised relays, rated at 5A resistive load at 28 Vdc/125 Vac
- Supervision input indicates voltage is present when the common point of relay has greater than 8.5 Vdc
- Relays are accompanied by an LED which is illuminated when a relay is energized
- Four open collector trigger outputs (15 mA, 15 Vdc maximum)
- Power supply monitor inputs for AC loss and low battery detection
- All terminal blocks accept push-on terminal strips
- 8-bit microprocessor
- EEPROM based configuration storage
- Echelon Network interface implemented with an Echelon transceiver



**NORTHERN  
ACCESS CONTROL  
SYSTEM  
QRM  
QUAD RELAY  
MODULE**

# QRM

## APPLICATIONS

The QRM controls relays and triggers according to its configuration and accesses according to commands generated by the MLB. It stores the configuration in an on-board EEPROM. These resources are under direct control of the MLB and are not committed to an access point.

## INSTALLATION

The QRM communicates with the MLB via a twisted pair network connection through the use of the Echelon LonWorks® Protocol. Each QRM connected to the network is identified by a unique 48-bit serial number which is present in the QRM.

## SPECIFICATION

The QRM obtains its power from the PTCANPOWER, power supply and enclosure. When mounted in a cabinet along with an MLB or DCM, it obtains its power from the ACS PS REMOTE power output. The QRM requires 10.5-14 Vdc at 100 mA. It also provides two power supply monitoring inputs: low battery and AC loss. These two inputs are compatible with the corresponding monitoring outputs of the access control system power supply. Recommended power is one PTCANPOWER for every two modules (QRM or ZIM).

## ORDERING INFORMATION

- PTQRM** Quad Relay Module
- PTCANPOWER\*** Accessory enclosure with power supply and transformer  
*\*Use 1*
- PTCANPOWER** for every 2 ZIM's or QRM's

Consult your Northern Sales Representative for more information.

