



Q-controller

RE.10.QRPC

THE FUTURE IS HERE. IT'S JUST NOT DISTRIBUTED YET

Document: RE.10.QRPC Date: 26-February-2010 Version 1.5

Quad Remote Port Controller

The Q-controller is an intelligent Remote Console Port controller with 4 embedded clean relay contacts and 5 serial ports. The 4 serial ports can be used for Out-of-band management and the clean relay contacts, in combination with a Single Port Remote Power Switch, can be used for remote power management.

Many networked devices such as servers, routers and switches are accessible through local serial console ports for initial configuration and emergency management. Out-of-band management provides an alternative route that is independent of the data network (WAN and/or LAN), using direct physical access provided by management ports (serial console ports) of network and infrastructure equipment.

The Q-controller can be used stand alone, daisy chained with multiple units or in combination with a x-router product.

Features

- ✓ 2x 10/100 Base-T Ethernet ports
- ✓ 5x RS-232 serial interface
- ✓ 4x Relay contact for remote power cycling of equipment
- ✓ 4x Input for detecting open/close contacts
- ✓ Can be daisy chained through Ethernet port, up 100m away
- ✓ Works stand-alone, or in combination with the x-routers
- ✓ Buffers console messages on all four serial ports
- ✓ Power-over-Ethernet and DC Power Jack
- ✓ Remotely configurable and software upgradeable
- ✓ Complies With EMI/RFI Regulations
- ✓ CE, RoHS and WEEE Compliant
- ✓ Black, Flame retardant ABS plastic enclosure
- ✓ 1 Year Warranty

Benefits

- Stand-alone operation - The Q-controller is a self contained unit which can be connected to up to four separate serial console ports of remote networking equipment. The unit can be connected to a LAN network in which case access is provided via a standard web browser or command line interface (CLI). An IP address to access the unit can either be configured static or through DHCP.
- Daisy Chain operation - The Q-controller can be daisy chained using the two Ethernet ports on the unit by using standard Ethernet cabling. The cable length between the units can be up to 100 meters enabling remote equipment to be monitored which is for example located somewhere else in the building.
- Ethernet Switched operation - The Q-controller also works over standard (switched) Ethernet networks allowing remote units to be placed at far away sites.
- Router operation - The Q-controller can be used as a serial port extender of the G-router or C-router, giving RFI Engineering's routers additional serial ports and relay contacts. Multiple units can be connected, in any combination of daisy chain or Ethernet Switched mode.
- All messages on the console ports are buffered and stored on the Q-controller in a 1MByte ring buffer enabling network operators to read back console data prior to a network incident occurring.



Connectors

Power Connector	DC Power jack 2.1mm
Relay (normal open and closed)	4x RJ-11 (pins 2 to 5)
Inputs	4x RJ-11 (pins 1 & 6)
RS-232	5x 9-pins sub-D male
Ethernet connectors	2x RJ-45

Power Requirements

Power Jack	24VDC...48VDC, 15Watt max.
Power over Ethernet	38VDC...56VDC, 15Watt max.
Unit ships standard with universal 20Watt PoE power supply	

Environmental

Operating Temperature	0° to 40°C with no derating
Storage Temperature	-30° to +85°C
Relative Humidity	5% to 95% non-condensing
Altitude	0-10,000 feet
Cooling	Convectonal - non vented case

Mechanical

Case Dimensions	234L x 134W x 60H (mm)
Case Material	Black, Flame retardant ABS plastic UL94V-0
Weight	26 Ounces, 750 grams