COMTROL
Pepperl+Fuchs

ROCKETPORT® INFINITY 8J

Part Number: 30027-4

KEY FEATURES AND BENEFITS

- RJ11 multi-port serial expansion using a single PCI slot maximizes host expansion capabilities; adds additional COM ports using only one slot

- Low-latency communication supporting the widest variety of applications

- RS-232, RS-422, and RS-485 software-selectable

- On-board dedicated 44MHz RISC processor minimizes "host" CPU utilization

- Edge-mounted RJ11 serial ports provide cost-effective, compact serial connections

- Transmit and receive buffers 32 times larger than a standard 16550 UART-based serial card ensuring smooth, efficient data transfer

- Support for the most popular Windows operating systems (including Windows® 10) and Linux kernels and QNX 6.X

- Windows driver, which can be configured for interrupt or polling mode

- Free troubleshooting tools in the event you want to diagnose an issue:
  - Hardware diagnostics
  - LCOM (Linux tool for testing serial ports)
  - Comtrol Utility, which includes Test Terminal (WCOM2) for serial port testing and Port Monitor for monitoring ports

PRODUCT DESCRIPTION

Comtrol's RocketPort INFINITY 8J serial port expansion card provides eight "native" serial ports utilizing a single PCIe card slot and is compatible with all PCI Infinity bus architectures. The RJ11 serial ports, mounted on the edge of the card, support software configurable RS-232/422/485 serial communications at speeds up to 921.6 Kbps. Product is fully compatible with systems that have 32 or 64 bit 3.3 or 5 volt PCI and PCI-X expansion slots. The INFINITY design utilizes the Comtrol Unity ASIC technology that takes full advantage of the 66 MHz BUS speed available on PCI-X servers.

Every RocketPort serial card features the high-performance RocketPort processor chip, consisting of a dedicated 44MHz core that minimizes host CPU utilization and optimizes data transmission via larger transmitand- receive buffers than those of 16550 UART chips, commonly used in standard PC serial ports and low-end serial cards.

NEMA TS2 · EXTENDED TEMPERATURE RATINGS · PORTVISION DX MANAGEMENT SOFTWARE · MADE IN USA

connect. communicate. control.

ROCKETPORT SPECIFICATIONS

HARDWARE
Maximum Cards/System
  4
Bus Interface Specification
  UNIVERSAL PCI PCI-X COMPATIBLE
Board Dimensions
  4.7" x 4.0"
Product Weight (w/ cables)
  3.2 oz

ELECTRICAL SPECIFICATIONS
Current Consumption
  3.3 V or 426mA
Power Consumption (Max.)
  1.4 Watts
ESD Surge Protection
  Provides minimum of 15KV for all serial lines

ENVIRONMENTAL SPECIFICATIONS
Air Temperature
  System On   0° to 60°C
  System Off   -20° to 85°C
Operating Humidity
  5% to 95%
Altitude
  0 to 10,000 feet
  3,048m
Heat Output
  4.8 BTU/Hr
Mean time between failures (MTBF)
  61.7 years

DEVICE DRIVERS
FreeBSD 5
FreeBSD 6
QNX® 6.X
Linux
Microsoft® Windows® 7
Microsoft® Windows® 8
Microsoft® Windows® 8.1
Microsoft® Windows® 10
Microsoft® Windows® Server 2008 R2
Microsoft® Windows® Server 2012

SERIAL COMMUNICATIONS
Connector Type
  RJ11
Supported Standards
  RS-232/422/485
Baud Rate
  300bps to 460Kbps
  Receiver Buffer: 512 bytes
  Transmit Buffer: 512 bytes
Data Bits
  5, 6, 7, or 8
Parity
  Odd, Even, None, Mark and Space
Stop Bits
  1, 1.5, or 2
Flow Control
  Hardware or Software
Ring Indicator
  No

EXPPORT INFORMATION
Packaged Shipping Weight
  0.70 lb
Package Dimensions
  10 1/4" x 7 1/2" x 2 3/4"
UPC Code
  7-56727-30027-4
ECCN
  EAR99
Schedule B Number
  8471.80.1000

FEATURES
RoHS 2 compliant under CE
Low-Profile or Standard Height
Easy Setup
5 Year Warranty

REGULATORY APPROVALS
Emissions
  Canadian EMC Requirements ICES-003
  European Standard EN55022
  FCC Part 15 Subpart B: Class B limit
  AS/NZS CISPR 22
Immunity
  European Standard EN55024
    IEC 1000-4-2/EN61000-4-2: ESD
    IEC 1000-4-3/EN61000-4-3: RF
    IEC 1000-4-4/EN61000-4-4: Fast Transient
    IEC 1000-4-5/EN61000-4-5: Surge
    IEC 1000-4-6/EN61000-4-6: Conducted
    Disturba nce
    IEC 1000-4-8/EN61000-4-8: Magnetic Field
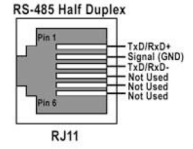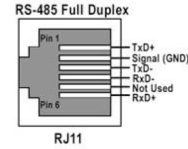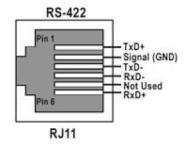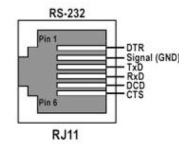   IEC 1000-4-11/EN61000-4-11: Dip and Voltage
Safety
  IEC 60950/EN60950 (LISTED)
    CSA C22.2 No. 60950/UL60950 Third Edition
Other
  RoHS2 Compliant

Regulatory Approvals

PINOUTS