DATA SHEET

PH-DUP3017

Up to 64 Ports, RS-232 Serial to Ethernet, Terminal Server/Client

IPEX
(IP Electronix)
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Contents

1. INTRODUCTION

IPEX PH-DUP3017 Terminal Server/Client is a simple solution for connecting serial devices to a network which results in having up to 64 RS-232 serial ports over Ethernet network. This converter uses transparent communicate protocol, so it is not required to understand complex Ethernet TCP/IP protocol, and no modification in serial programs is needed. It operates as a Real COM, TCP Server, TCP Client, UDP Server and UDP Client Full-Duplex converter and supports bidirectional connection.

PH-DUP3017 is designed for industrial usage and is useful for connecting any device with a serial interface to a computer via Ethernet supported network like LAN, WAN … and can be used in Industrial Automation, Telecommunications, SCADA Systems, DCS Systems ….

Protection against Surge, ESD and EMI is implemented in its design and it has 3kV isolation between Ethernet and RS-232 sides.

2. SERIAL INTERFACE (RS-232)

- **Number of Ports:** 8 Port in each Card Module, up to 8 Card Module is supported in one Sub-Rack.
- **Serial Standard:** Meets or Exceeds the Requirements of TIA/EIA-232-F and ITU v.28 Standards.
- **RS-232 Signal (Full Handshake Support):** TxD, RxD, DTR, RTS, DSR, CTS, GND.
- **Baud Rate Type:** Configurable.
- **Baud Rates:** 50, 75, 110, 150, 300, 450, 600, 900, 1200, 1800, 2400, 3600, 4800, 7200, 9600, 14400, 19200, 28800, 38400, 56000, 57600, 76800, 115200 bps and Custom Baud Rate is Selectable.
- **Data Bits:** 5, 6, 7, 8; Selectable.
- **Stop Bits:** 1, 1.5, 2; Selectable.
- **Parity:** Even, Odd, None, Mark and Space; Selectable.
- **Flow Control:** Hardware (RTS/CTS, DTR/DSR), Software (Xon/Xoff) and None.
- **Data Buffer:** 4000 Bytes (2k Bytes Transmit, 2k Bytes Receive).
- **Connector:** RJ-45 Female (DTE).
- **Maximum Communication Distance:** 15m.

3. Ethernet Interface

- **Number of Ports:** 1 Ethernet port for every 4 RS-232 port.
- **Speed:** 10/100 Mbps, auto MDI/MDIX
- **Connector:** 8-pin RJ45 Magnetic.
- **Magnetic Isolation Protection:** 1.5 KV built-in
- **Network Protocols:** ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, ARP, HTTP.
- **Remote Configure:** Web Configuration is supported.

4. PROTECTION

- **Isolation Protection:** 3kV Instantaneous, 500V DC Continuous
- **Surge Protection:** Embedded 1500W Surge Protection
- **Magnetic Isolation:** 1.5 kV Built-in
- **ESD Protection:** RS-232 Bus-Pin ESD Protection Exceeds ±15 kV Using Human-Body Model (HBM)

5. GENERAL SPECIFICATIONS

- Power **(Green)** LED Indicator
- Transmit **(Blue)** LED Indicator
- Receive **(Yellow)** LED Indicator
- **Guarantee Period:** 1 Year
- **Warranty Period:** 5 years

6. POWER SUPPLY

- **Power Supply Input Voltage:** 220V AC, 50Hz.
- **Power Consumption:** ~4.8W for each Card Module.

7. PHYSICAL CHARACTERISTICS

- **Housing:** Standard Metal 19" Sub-Rack with 4 Unit Height.
- **Weight:** 5.2 kg.

8. ENVIRONMENTAL LIMITS

- **Operating Temperature:** -10°C to +70°C (+14°F to +158°F)
- **Operating Humidity:** 5% to 95% RH
- **Storage Temperature:** -20°C to +85°C (-4°F to +185°F)