DL-PC/104

Data Highway Plus (DH+) / Remote I/O (RI/O) Adapter
PC/104 Interface Card

The DH+ / RI/O Adapter Card is a PC/104 based module which allows PC/104 computers or OEM based applications access to AB's DH+ and RI/O networks. The Interface Card allows existing 1770-KF2, and PLC CH0 Serial DF1 drivers to run at the PC/104's bus speed. This will allow MMI, HMI, SCADA equipment, and other computer applications access to any DH+ node including PLC's and SLC's.

All settings are accomplished using an easy to use Windows based Configuration Program over the bus or by using an external RS-232 connection to another computer.

Data Highway Plus (DH+)

Speeds: 57.6 K ,115.2, and 230.4 Kbaud
Configurable DH+ address (0 to 77o)

Remote I/O (RI/O)

Speeds: 57.6 K, 115.2 K, and 230.4 Kbaud
Occupy 1 to 7 virtual adapter Racks
128 bits of throughput data per rack
Up to 16 Block Transfer Reads and Writes per rack

Specifications

Stackable bus connectors to PC/104 Bus
Pushbutton to enable Hardware configuration (COM and IRQ)
Parameters: Hardware and Online (DH+ / RI/O) are stored in Non-Volitile EEPROM
FLASH firmware allows ease of upgrading
DF1: Both Full (Point to Point) and Half (Multidrop) Duplex Modes
DF1: Either BCC or CRC error checking
Diagnostic DF1 counters for driver statistics

ERROR Led: Red Led indicates driver and network errors
NETWORK Led: Green Led indicates either DH+ or RI/O activity
BUS Led: Green Led indicates access to the cards 16550 UART Emulator (COM PORT) by DF1 driver

Dimensions: 3.550" X 3.775" (90.17 X 95.89 mm) and 0.2 lbs (0.086 Kg)
Operating Environment: 32 to 122 °F (0 to 50 °C)
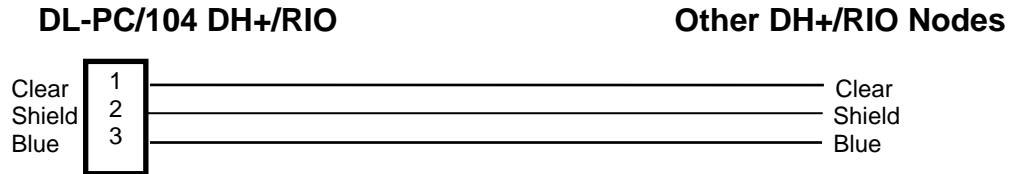**Storage:** -40 to 185°F (-40 to 85°C)
Humidity: 5% to 95% non-condensing
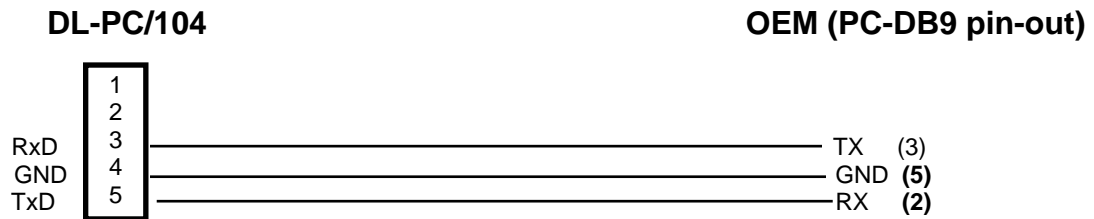**Power:** PC/104 Bus 5V - 1.5 watts

Wiring Diagrams

1. Online Cable DL-PC/104 DH+/RIO

DL-PC/104 DH+/RIO   **Other DH+/RIO Nodes**

```
Clear   | 1 |————————————————————————  Clear
Shield  | 2 |————————————————————————  Shield
Blue    | 3 |————————————————————————  Blue
```

**Note: Clear & Blue might have to be swapped depending on existing DH+ wiring
RIO wiring usually has the Clear and Blue swapped**

2. Offline Programming Port RS232 – 5 Pin Plug

DL-PC/104   **OEM (PC-DB9 pin-out)**

```
        | 1 |
        | 2 |
RxD     | 3 |————————————————————————  TX   (3)
GND     | 4 |————————————————————————  GND  (5)
TxD     | 5 |————————————————————————  RX   (2)
```

Note: 5 Pin Connectors are numbered from Left to Right

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