



## DL-PCI Hardware Specifications



### DL-PCI

#### Data Highway Plus (DH+) / Remote I/O (RI/O) Adapter / DH-485 PC PCI BUS Interface Card

The DH+ / RI/O Adapter / DH-485 Card is a PCI based module which allows PCI bus 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's PCI 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, 115.2, and 230.4 Kbaud  
Configurable DH+ address (0 to 77o)

#### DH-485

Speeds: 4800, 9600 Baud, and 19.2 Kbaud  
Configurable DH-485+ address (0 to 31 decimal)

#### 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

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## Specifications

PCI bus connection

**Pushbutton** to enable Hardware configuration (Flash Upgrade Firmware, etc)

**Parameters:** Hardware and Online (DH+ / RI/O/ DH-485) are stored in Non-Volatile 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:** PCI Card

**Operating Environment:** 32 to 122 °F (0 to 50 °C)

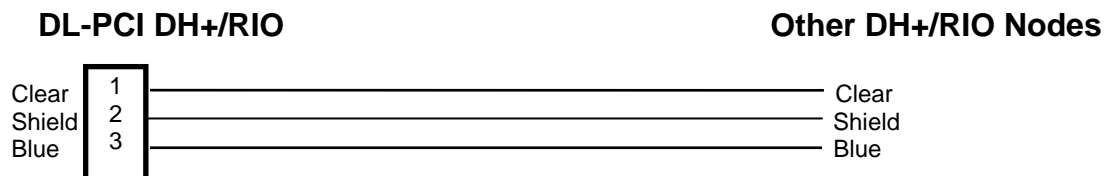
**Storage:** -40 to 185°F (-40 to 85°C)

**Humidity:** 5% to 95% non-condensing

**Power:** PCI Bus 5V - 1.5 watts

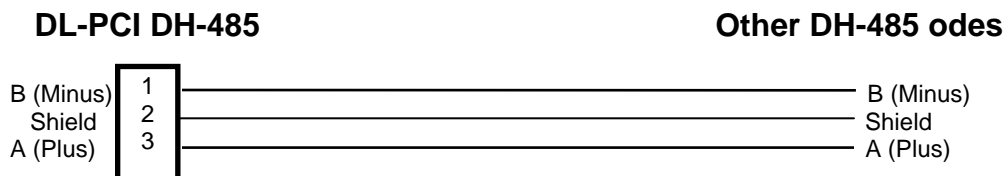
## Wiring Diagrams

### 1. Online Cable DL-PCI DH+/RIO



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

### 2. Online Cable DL3500-CHA DH-485



**Note: Pins are number with PIN 1 Closest to DB9 (Left to Right)**