

**B&B ELECTRONICS**

Low Profile Universal PCI Serial Cards

DSCLP-100, ESCLP-100, QSCLP-100, SSCLP-200/300

PRODUCT FEATURES

- 1, 2, 4 or 8 independent RS-232 ports
- RS-232 speeds up to 921.6 kbps (100 series)
- RS-422 or 485 configurable, full or half duplex (excludes ESCLP-100)
- RS-422/485 speeds up to 460.8 kbps (200/300 series)
- Auto enable/disable of RS-422/485 transmitter
- 16550 UARTs with 16-byte FIFOs (1, 2, 4 port boards)
- 16750 UARTs with 64-byte FIFOs (8 port boards)

These Low Profile Universal PCI Serial Cards utilise a single PCI slot to provide two independent asynchronous serial ports sharing a single interrupt. Multi-port versions require only one slot to connect. The cards include a fan out cable with independent DB-9 male connectors. All PCI registers are properly implemented, so you can be assured that these boards will be good citizens on the PCI bus. These models use a universal PCI connector compatible with both the 3.3V connector key required by PCI 2.3 and later specifications and the 5V connection used by older systems. Full modem control and hardware and software flow control

Serial port connections are made via DB-9 male connectors with 16550 UARTs containing 16-byte FIFOs. To maintain maximum signal integrity, the four-layer board design ensures maximum protection versus noise propagation throughout the communication lines.

SPECIFICATIONS

SERIAL TECHNOLOGY

Bus Interface	32-bit, 33 MHz PCI Bus specification 2.3 compliant
O/S Support	Windows 95/98/Me/2000/XP/Vista/7, Linux, DOS
Data Rate	Up to 460.8 kbps (200/300 series) Up to 921.6 kbps (100 series)
RS-232 Connectors/Ports	DSCLP: DB-25 male to cable with 2 DB-9 male QSCLP: HD-44 female to cable with 4 DB-9 male ESCLP: VHDCI-68 male to cable with 8 DB-9 male
RS-422/485 Connectors/Ports	DSCLP: DB-25 female to cable with 2 DB-9 female QSCLP: HD-44 female to cable with 4 DB-9 female Each RS-422 or RS-485 configurable, full or half duplex
RS-232 UARTs	D/ QSCLP: 16550 UARTs; 16-byte FIFOs (1 per port) ESCLP: 16750 UARTs; 64-byte FIFOs (1 per port)
RS-422/485 UARTs	SSCLP-200/300: 16550 UARTs; 64-byte FIFOs (1 per port)
RS-232 Transceiver	ICL3245CA or compatible
RS-422/485 Transceiver	MAX3076E or compatible
RS-232 Drivers	High Level Output: +5V (min), +5.4V (typical) Low Level Output: -5V (min), -5.4V (typical) Transition Time (THL-TLH): 25ns (typical) Differential Voltage: $\pm 3.3V$
RS-422/485 Drivers	Transition Time (TLH): 52ns (typical) Transition Time (THL): 60ns (typical)
RS-232 Receive Buffers	Voltage Range: -25V (max), -25V (minimum) Transition Time (THL-TLH): 50ns (typical)
RS-422/485 Receive Buffers	Differential Input Threshold: $\pm 0.2V$ Voltage Range: -7V to +12V Common Mode Input Transition Time (THL-TLH): 65ns (typical)
Dimensions	MD1 board, fits 2U racks: 6.36 x 11.99 cm (2.5 x 4.72 in) Low profile PCI bracket: 7.92H cm (3.12 in) (Standard PCI bracket also included)

POWER

Requirements	+5V, 260mA (typical)
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ENVIRONMENTAL

Operating Temperature	0 to +70 °C
Storage Temperature	-50 to +80 °C
Operating Humidity	10 to 80%

APPROVALS / CERTIFICATIONS

Certifications	CE, FCC Class B RoHS and WEEE compliant
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ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
SSCLP-200/300	1 Port, RS-422/485, DB9, Low Profile, Universal PCI
DSCLP-100	2 Port, RS-232, DB9, Low Profile, Universal PCI
QSCLP-100	4 Port, RS-232, DB9, Low Profile, Universal PCI
ESCLP-100	8 Port, RS-232, DB9, Low Profile, Universal PCI

About Low Profile Universal Cards

Low Profile Universal PCI cards add serial connectivity to a variety of desktop, thin client, embedded systems, and server environments. These boards provide true universal connectivity, enabling a single product to be used to implement systems with dramatically different resource requirements. This makes Quatech boards the most robust, flexible, and economical choice for any application requiring multiple serial ports. These cards are mechanically similar to standard PCI cards, but use a shorter board and a different mounting bracket. With greater flexibility, they are designed on the smallest MD1 low profile footprint, but come with both a full size ORB for standard systems, and a smaller ORB for use in low profile backplanes to fit even 2U racks without riser cards. A wide range of OS options facilitates system upgrades and multiplatform installations.