

DP-cPCI-5715

cPCI Based PentiumM SBC

KEY FEATURES AND BENEFITS

- 1.4GHz LV PentiumM 738 CPU with 2MB L2 cache
- Support for
- Up to 1GB DDR333 SODIMM (small outline dual in-line memory module interface)
- Optional PMC Interface for 32bit/33MHz on PCI bus
- Four IDE devices include one onboard 2.5" HDD and compact flash interface and two HDD interfaces on rear IO
- Four USB2.0 ports with two on fascia and 2 on rear I/O
- ECP/EPP or FDD on the parallel port
- Two RS232 ports supporting RS232 level signal
- Three RS422/RS485 ports with isolated receiver
- RGB interface on fascia through DVI-I (RGB only) connector
- One 10/100base-T Ethernet link
- PS/2 Interface
- RTC interface with battery backup on the base board
- 6U form factor with CPCI bus interface expansion
- Software Support: Linux 2.6.9, Windows 2000, XP.

APPLICATIONS

- Checkout systems
- Data acquisition systems
- Signal processing units



OVERVIEW

DP-cPCI-5715 is a high performance, rugged, air-cooled, 6U cPCI based single-board computer designed to meet the needs of embedded applications like industrial automation, telecommunication, military and more.

MODULE CONFIGURATION

With a flexible memory configuration and processor module in ETX form factor, the board offers a simple ability to upgrade by selecting a more powerful CPU without baseboard redesign (the ruggedizer needs a redesign based on different CPU modules). On-board peripheral interfaces include graphics, Ethernet, IDE, serial ports, parallel port/FDD, USB, PS2 keyboard/mouse and PMC extension.

INTERFACE

The board has one 10/100 Base-T Ethernet interface to transmit data either at 10Mbps or 100Mbps over a length of 100meters on a twisted-pair cable. The Ethernet interface has mount option to terminate at either the front panel RJ45 connector or the rear IO connectors. IDE interface supports four IDE devices, two on the primary channel and two on the secondary channel. A 2.5" IDE socket (primary) and compact flash socket (secondary) are provided on-board with two IDE interfaces, one from primary channel and one from secondary channel, terminated on the rear IO. The on-board jumper selects the primary or secondary master. The default state is the primary master without jumper installed and the jumper installation selects the secondary master.

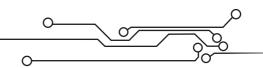
I/O

VGA output from CPU module is buffered to three outputs. One output is taken to fascia, while the other two are terminated on the rear-IO. The buffered VGA output on fascia is terminated on a DVI-I connector. The board has two serial ports supporting RS232 signal interface with one port offering full modem support on the fascia and other port is terminated on the rear-IO. One parallel printer (EPP/ECP)/FDD interface is provided on rear IO. Either printer port or FDD is functional at a time with on-board jumper selection. Four USB2.0 ports are supported with two ports interfacing on the fascia while the other two are terminated on the rear-IO. PS/2 keyboard and mouse interfaces, both sharing the same stack up on the fascia with front or rear options available. An on-board optional PMC interface for a 32bit/33MHz PCI bus is available.

SOFTWARE SUPPORT

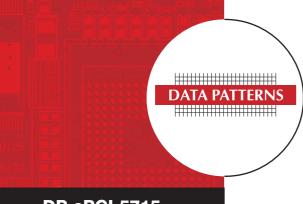
Drivers for Linux 2.6.9, Windows 2000 and XP provided.

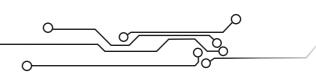




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SPECIFICATIONS			
CPU SPEED	Ultra low voltage Pentium M738 with 2MB L2 cache	CONNECTOR Backplane interface Field interface	CompactPCI back-plane interface Through front or rear panel
RAM CompactPCI	Up to 1GB DDR333with optional ECC and SODIMM interface	MECHANICAL Board size Module Ruggedizer	233.33mm (H) x 160mm (D) 6U (H), 4T (W) A ruggedizer for heat dissipation and good strength
·	32 bit / 33 MHz PCI-PCI bridge for cPCI bus interface expansion	ENVIRONMENT	Commerical and rugged versions
IDE	 Upto four IDE devices One 2.5" note book IDE interface on-board on primary channel 	POWER SUPPLY	5V@5A, 3.3V@3.4A, and 12V@ 0.1A
	One on-board compact flash socket on secondary channel One 3.5" IDE interface from primary and secondary channels each on rear IO	ORDERING INFORMATION DP cPCl 5715 6 3 6 3 9 0	
ETHERNET SERIAL I/O	One 10/100 Base-T Ethernet interface with front or rear option Two serial ports supporting Rs232 level signal interface with one port offering full modem interface on fascia. The other port is terminated		IDE/PMC O - No on-board IDE and PMC 3 - On-board 2.5" IDE (2.5"HDD) 6 - 32 bit PMC@33MHz Compact Flash O - No flash disk
USB	on rear I/O. Four USB 2.0 ports with two on front panel and two on rear panel		3 - 256MB flash disk 6 - 512MB flash disk 9 - 1GB flash disk DDR Memory ECC support 3 - with ECC
KEYBOARD / MOUSE	PS/2 compatibleFront or rear option	DDR Memo 3 - 256MB II 6 - 512MB II 9 - 1GB DD A outputs with and two on On front panel GB only) Celeron- 9 - 800MHz Celeron-	6 - without ECC DDR Memory 3 - 256MB DDR333 SODIMM 6 - 512MB DDR333 SODIMM 9 - 1GB DDR333 SODIMM
	Three buffered VGA outputs with one on front panel and two on rear IO The VGA interface on front panel is through a DVI-I(RGB only) connector		- 3 - 1.4GHz low voltage PentiumM 738 6 - 1.0GHz ultra low voltage Celeron-M 373 9 - 800MHz Ultra low voltage Celeron-M 3 - Commercial





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