

cPCI-3915 Series

3U CompactPCI Intel® Pentium® M / Celeron® M Processor SBC with Dual GbE on PCI-Express



Features

- Low power consumption Intel® Celeron® M / Pentium® M processor up to 2.0GHz
- Single SODIMM socket DDR2 400/533MHz, up to 1GB
- Dual Gigabit Ethernet ports on PCI-Express bus
- Multiple storage interfaces: Serial ATA, IDE, CompactFlash
- Supports high resolution, dual channel, multiple display interfaces: CRT (up to 2048 x 1536), DVI (up to 165MB/s), and LVDS (1 x 18 bpp)
- Up to 3 USB 2.0 ports, 2 on the front panel, and the other 1 on the rear panel
- Extended temperature option

Ordering Information

cPCI-3915A	1-slot 3U cPCI Pentium® M/ Celeron® M SBC with dual GbE, single USB, and CRT output
cPCI-3915B	2-slot 3U cPCI Pentium® M/ Celeron® M SBC with dual GbE, dual USB, dual COM, and CRT output
cPCI-3915A-ULV/ C10	1-slot 3U cPCI ULV Celeron® M 1.0GHz SBC with dual GbE, single USB, and CRT output
cPCI-3915A-LV/ P14	1-slot 3U cPCI LV Pentium® M 1.4GHz SBC with dual GbE, single USB, and CRT output
cPCI-3915B-ULV/ C10	2-slot 3U cPCI ULV Celeron® M 1.0GHz SBC with dual GbE, dual USB, dual COM and VGA output
cPCI-3915B-LV/ P14	2-slot 3U cPCI LV Pentium® M 1.4GHz SBC with dual GbE, dual USB, dual COM and VGA output
cPCI-R3915	Rear Transition module for cPCI-3915 with DVI, LVDS, USB, COM, SATA

Rear I/O Transition Modules

	cPCI-3915A		cPCI-3915B		cPCI-R3915	
	Faceplate	On-board	Faceplate	On-board	Faceplate	On-board
CRT	Y (DB-15)	--	Y (DB-15)	--	--	--
DVI	--	--	--	--	Y (DVI-I)	--
LVDS	--	--	--	--	--	Y
LAN	Y (RJ-45) x 2	--	Y (RJ-45) x 2	--	--	--
USB	Y x 1	--	Y x 2	--	Y x 1	--
PS2	--	--	Y (Combo)	--	--	--
COM	--	--	Y (DB-9) x 2	--	Y (DB-9)	--
SATA	--	Y	--	Y	--	Y
PATA	--	Y (44-pin)	--	Y (44-pin)	--	--
CF	--	Y	--	Y	--	--
Reset	Y	--	Y	--	--	--
LEDs	Y	--	Y	--	--	--

Specifications

CPU / Chipset / RAM

CPU	μFC-PGA Intel® Pentium® M 1.6/ 1.8/ 2.0GHz, up to 2MB L2 cache μFC-BGA Intel® Pentium® M LV 1.4GHz, 2MB L2 cache μFC-PGA Intel® Celeron® M 1.3/ 1.5GHz, up to 1MB L2 cache μFC-BGA Intel® Celeron® M ULV 1.0GHz, 512KB L2 cache
FSB	400/533MHz
Chipset	Intel® 915GM (Grantsdale-GM) GMCH with ICH6
RAM	Support single un-buffered, non-ECC, DDR2 SODIMM, 400/533MHz Maximum 1GB System Memory

Bus

Standards	PICMG 2.0 R3.0
CompactPCI Bus	32-bit/33MHz PCI bus

BIOS

Chip	Award 4Mb flash memory
Features	Intel® PXE pre-boot on Ethernet Serial Console

I/O Interfaces

Display	Intel® 915GM Integrated Graphics
Ethernet	Dual Marvell 88E8052 Gigabit Ethernet Controllers based on PCI-Express x1 bus
IDE	Ultra ATA 100/66/33, primary IDE 44-pin and CompactFlash slot
USB	Three USB 2.0 ports, two on the front panel, and the other one on the rear panel
Serial Port	Two DB-9 connectors on the front panel
Serial ATA	Two onboard SATA connectors, one is on the front board and the other is on the RTM
KB/MS	One PS2 KB/MS Combo Port
Front Panel I/Os	COM x 2, LAN x 2, DB-15, USB x 2, PS2 KB/MS (Combo)
CF	One on-board CompactFlash Socket
Rear Panel I/Os	USB, COM2, DVI

Mechanical and Environmental

Form Factor	3U CompactPCI
Dimensions	100mm x 160mm (L x W), 1 or 2 slots width
Operating Temp.	-40° C to +70° C with Typical CPU -40° C to +80° C with LV/ULV CPU (forced airflow is required)
Storage Temp.	-40 to +85° C
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88G rms, 5-500Hz, each axis Operation: 0.5G rms, 5-500Hz, each axis
Certificate or Test	CE, FCC Class A

Other Features

Operating System Compatibility	Microsoft® Windows 2000/XP, Microsoft® Windows Server 2003, and Red Hat Fedora™ Core 4 & 5 (Other OS upon request)
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- 1 AdvancedTCA Products
- 2 6U cPCI SBC
- 3 6U cPCI Platforms
- 4 3U cPCI SBC
- 5 3U cPCI Platforms
- 6 SBC & IMB
- 7 Industrial Chassis
- 8 Computer On Modules
- 9 Network Appliance
- 10 IPC Accessories