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Specifications

Embedded Systems

CP610 CompactPCI Single, Dual or Quad 10/100BaseTX Ethernet

- Single, Dual or Quad 10/100BaseTX Ethernet
- Available with 3U or 6U front panel
- Full duplex operation in both 10 and 100 modes
- Automatic configuration to highest possible speed
- Device drivers included

Specifications

NIC Matrix

With single/dual/quad 10/100Mbit Ethernet interfaces, the CP610 card delivers the highest networking performance. Four 10/100BaseTX channels are each capable of full duplex operation in both 10 and 100Mbit modes. Each of the Ethernet/PCI chips includes a powerful DMA engine with very deep FIFO buffers. This assures continuous, full bandwidth operation with minimum PCI overhead. State-of-the-art PCI/PCI bridge (used only for the dual and the quad versions) couples the Ethernet interfaces to the host PCI bus, assuring high performance with minimum PCI loading.
Auto-negotiation

The CP610 features a full auto-negotiation facility allowing automatic configuration to the highest possible operating mode. This includes the option for automatic determination of both bandwidth and full duplex operation.

Low cost, effective interconnect

Two CP610 boards can be directly cabled with a simple "cross-over". This configuration creates a full duplex 800Mbit dedicated data path - delivering high bandwidth at very low cost. More complex, dedicated interconnects can be created using a hub or switch. Both point-to-point and switched hubs, in full duplex mode, remove many determinism concerns raised with traditional Ethernet solutions. This makes the CP610 an excellent candidate for high performance interconnects that require real time determinism.

Software support

GE Fanuc Embedded Systems has software drivers for all popular operating systems (e.g. VxWorks, HPUX, LynxOS, Digital Unix, Windows NT, Solaris etc.) These drivers have been carefully designed and implemented to fit within the LAN protocol stack of the host operating system. Thus all facilities available from the host OS can be utilized across the CP610. GE Fanuc Embedded Systems' drivers allow user control over the CP610 auto-negotiation capability.

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Embedded Systems

Functional Specifications: CP610 CompactPCI Single, Dual or Quad 10/100BaseTX Ethernet

Power	**4 Watts**
@ 3.3 V	**0.6 Amps**
@ 5 V	**0.48 Amps**
Form Factor	
cPCI	**3U Single Slot**
Available Front Panels	**3U or 6U**
MTBF	
MIL 217-F Nav Shel 25 Deg. C	**279000 Hours**
Temperature	
Operating	**0 to +60 ° C**
Storage	**-40 to +85 ° C**
Humidity	
Operating	**5% to 95% non-condensing**
Storage	**5% to 95% non-condensing**
Conformal Coating	**Yes, additional charge**
PCI Bus Characteristics	
Signaling	**3V, 5V & 12V**
Specification	**2.2**
Speed	**33 MHz**
Width	**32**
PCI Standards	
Hot Swap	**Yes**
Ethernet Characteristics	
Ports	
10/100 Base-TX	**1, 2, or 4 Ports**
Port Routing	
Front	**(1, 2 or 4) RJ45 ports**

Network Interface Cards

GE Fanuc offers one of the most comprehensive ranges of Ethernet NICs available on the market today. From single, dual, quad and octal ports on a single card; the availability of 10/100/1000 Base Ethernet with an upgrade path to 10 Gigabit Ethernet today; a variety of media and connection options; and support for front and rear panel I/O, GE Fanuc offers over 100 different variants to address every application.

The product portfolio spans VME, CompactPCI® (3U and 6U), PMC and PCI. The products are supplied with a selection of device drivers for all the popular operating systems including, but not limited to, Solaris®, Linux®, LynxOS®, QNX®, VxWorks® and Windows®. Please contact your local representative for availability.

Product Name	Form Factor	10/100 Ports	1000 Ports	Media	Connectors	Intelligent/ Non-Intelligent	Features
PMC611/1	PMC	1	0	Copper	RJ45	Non-Intelligent	N/A
PMC661FX	PMC	1	0	Fiber	SC	Non-Intelligent	N/A
PMC661J	PMC	1	0	Copper	RJ45	Non-Intelligent	N/A
PMC661ST	PMC	1	0	Fiber	ST	Non-Intelligent	N/A
PMC682	PMC	1	0	Copper	RJ45	Non-Intelligent	2 Serial connections
PMC682/M	PMC	1	0	Copper	RJ45	Non-Intelligent	1 Serial connection, 1 56K modem
PMC682J4	PMC	1	0	Copper	Blackplane	Non-Intelligent	2 Serial connections, Rear I/O
PMC682ISO	PMC	1	0	Copper	RJ45	Non-Intelligent	2 Isolated Serial connections
PMC682/E	PMC	1	0	Copper	RJ45	Non-Intelligent	N/A
PMC611/2	PMC	2	0	Copper	RJ45	Non-Intelligent	N/A
PMC663AUI	PMC	2	0	Copper	Backplane	Non-Intelligent	N/A
PMC663FX	PMC	2	0	Fiber	SC	Non-Intelligent	N/A
PMC663J	PMC	2	0	Copper	RJ45	Non-Intelligent	N/A
PMC663J4	PMC	2	0	Copper	Backplane	Non-Intelligent	J4 connection; PIM663J4 available with RJ45s
PMC663ST	PMC	2	0	Fiber	ST	Non-Intelligent	N/A
PMC683	PMC	2	0	Copper	BNC	Non-Intelligent	10Base2 Thinwire Ethernet
PMC610	PMC	4	0	Copper	RJ45	Non-Intelligent	N/A
PMC610J4	PMC	4	0	Copper	Backplane	Non-Intelligent	Rear I/O J4 connection
PMC612	PMC	4	0	Copper	RJ45 or Backplane	Non-Intelligent	Front or Rear I/O
PMC618	PMC	4	0	Fiber	LC	Non-Intelligent	N/A
PMC684	PMC	4	0	Copper	Backplane	Non-Intelligent	4 Serial connections, 1 modem, Rear I/O, 8 TTL input + 8 TTL output
PMC675TX	PMC	2	0	Copper	RJ45	Intelligent	Fail-over firmware
PMC675LC	PMC	2	0	Fiber	LC	Intelligent	Fail-over firmware
PMC675	PMC	2	0	Fiber	SC	Intelligent	Fail-over firmware
PMC675MT	PMC	2	0	Fiber	MTRJ	Intelligent	Fail-over firmware
PMC675VF	PMC	2	0	Fiber	VF-45	Intelligent	Fail-over firmware
PMC675ST	PMC	2	0	Fiber	ST	Intelligent	Fail-over firmware
PMC694	PMC	2	0	Copper	RJ45	Intelligent	Fail-over firmware, PowerPC®
PMC671TX	PMC	0	1	Copper	RJ45	Non-Intelligent	82544 based
PMC671LC	PMC	0	1	Fiber	LC	Non-Intelligent	82544 based
PMC671SC	PMC	0	1	Fiber	SC	Non-Intelligent	82544 based
PMC671LC/LX	PMC	0	1	Fiber	LC	Non-Intelligent	82544 based; single mode fiber
PMC671SC/LX	PMC	0	1	Fiber	SC	Non-Intelligent	82544 based; single mode fiber
PMC672TX/1	PMC	0	1	Copper	RJ45	Non-Intelligent	5703 based
PMC672LC/1	PMC	0	1	Fiber	LC	Non-Intelligent	5703 based
PMC672SC/1	PMC	0	1	Fiber	SC	Non-Intelligent	5703 based
PMC672LC/1/LX	PMC	0	1	Fiber	LC	Non-Intelligent	5703 based; single mode fiber
PMC672SC/1/LX	PMC	0	1	Fiber	SC	Non-Intelligent	5703 based; single mode fiber
PMC676TX/1	PMC	0	1	Copper	RJ45	Non-Intelligent	82546 based
PMC676LC/1	PMC	0	1	Fiber	LC	Non-Intelligent	82546 based
PMC676SC/1	PMC	0	1	Fiber	SC	Non-Intelligent	82546 based
PMC676LC/1/LX	PMC	0	1	Fiber	LC	Non-Intelligent	82546 based; single mode fiber
PMC676SC/1/LX	PMC	0	1	Fiber	SC	Non-Intelligent	82546 based; single mode fiber
PMC669TX	PMC	0	2	Copper	RJ45	Non-Intelligent	82543 based
PMC669LC	PMC	0	2	Fiber	LC	Non-Intelligent	82543 based
PMC669LC/LX	PMC	0	2	Fiber	LC	Non-Intelligent	82543 based; single mode fiber
PMC669SC	PMC	0	2	Fiber	SC	Non-Intelligent	82543 based
PMC669SC/LX	PMC	0	2	Fiber	SC	Non-Intelligent	82543 based; single mode fiber
PMC672TX	PMC	0	2	Copper	RJ45	Non-Intelligent	5704 based
PMC672SC	PMC	0	2	Fiber	SC	Non-Intelligent	5704 based
PMC672LC	PMC	0	2	Fiber	LC	Non-Intelligent	5704 based
PMC672SC/LX	PMC	0	2	Fiber	SC	Non-Intelligent	5704 based; single mode fiber
PMC672LC/LX	PMC	0	2	Fiber	LC	Non-Intelligent	5704 based; single mode fiber
PMC672/M	PMC	0	2	Copper	Backplane	Non-Intelligent	5704 based, Conduction Cooled, Rear I/O
PMC672J4	PMC	0	2	Copper	Backplane	Non-Intelligent	5704 based, Rear I/O
PMC676TX/1	PMC	0	2	Copper	RJ45	Non-Intelligent	82546 based
PMC676SC	PMC	0	2	Fiber	SC	Non-Intelligent	82546 based
PMC676LC	PMC	0	2	Fiber	LC	Non-Intelligent	82546 based
PMC676SC/LX	PMC	0	2	Fiber	SC	Non-Intelligent	82546 based
PMC676LC/LX	PMC	0	2	Fiber	LC	Non-Intelligent	82546 based

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Product Name	Form Factor	10/100 Ports	1000 Ports	Media	Connectors	Intelligent/ Non-Intelligent	Features
PMC673TX	PMC	0	3	Copper	RJ45	Non-Intelligent	82544 based
PMC673LC	PMC	0	3	Fiber	LC	Non-Intelligent	82544 based
PMC677TX	PMC	0	4	Copper	RJ45	Non-Intelligent	82546 based
PMC677LC	PMC	0	4	Fiber	LC	Non-Intelligent	82546 based
PMC677LC/LX	PMC	0	4	Fiber	LC	Non-Intelligent	82546 based
PMC695TX	PMC	0	1	Copper	RJ45	Intelligent	eTCP firmware on-board
PMC695	PMC	0	1	Fiber	SC	Intelligent	eTCP firmware on-board
PMC695LC	PMC	0	1	Fiber	LC	Intelligent	eTCP firmware on-board
PMC695SC/LX	PMC	0	1	Fiber	SC	Intelligent	eTCP firmware on-board
PMC695LC/LX	PMC	0	1	Fiber	LC	Intelligent	eTCP firmware on-board
PMC696LC	PMC	0	2	Fiber	LC	Intelligent	Fail-over and TCP off load firmware
PMC696TX	PMC	0	2	Copper	RJ45	Intelligent	Fail-over and TCP off load firmware
PMC698LC	PMC	0	2	Fiber	LC	Intelligent	Fail-over firmware
PMC698TX	PMC	0	2	Copper	RJ45	Intelligent	Fail-over firmware
CP610/1-3U	CPCI 3U	1	0	Copper	RJ45	Non-Intelligent	N/A
CP610/1-6U	CPCI 6U	1	0	Copper	RJ45	Non-Intelligent	N/A
CP611/1-3U	CPCI 3U	1	0	Fiber	SC	Non-Intelligent	N/A
CP611/1-6U	CPCI 6U	1	0	Fiber	SC	Non-Intelligent	N/A
CP610/2/3U	CPCI 3U	2	0	Copper	RJ45	Non-Intelligent	N/A
CP610/2-6U	CPCI 6U	2	0	Copper	RJ45	Non-Intelligent	N/A
CP663FX/3U-M	CPCI 3U	2	0	Fiber	ST	Non-Intelligent	Conduction Cooled, metalized ST connectors
CP610/4-3U	CPCI 3U	4	0	Copper	RJ45	Non-Intelligent	N/A
CP610/4-6U	CPCI 6U	4	0	Copper	RJ45	Non-Intelligent	N/A
CP618/4	CPCI 6U	4	0	Copper and/or fiber	Backplane	Non-Intelligent	Rear I/O, any mix of RJ45 and LC connectors
CP618	CPCI 6U	8	0	Copper and/or fiber	Backplane	Non-Intelligent	Rear I/O, any mix of RJ45 and LC connectors
RM611/1	PCI	1	0	Copper	RJ45	Non-Intelligent	N/A
RM611	PCI	2	0	Copper	RJ45	Non-Intelligent	N/A
RM663FX	PCI	2	0	Fiber	SC	Non-Intelligent	N/A
RM663FX/LC	PCI	2	0	Fiber	LC	Non-Intelligent	N/A
RM663FX/ST	PCI	2	0	Fiber	ST	Non-Intelligent	N/A
RM663TX	PCI	2	0	Copper	RJ45	Non-Intelligent	N/A
RM675TX	PCI	2	0	Copper	RJ45	Intelligent	Fail-over software
RM675LC	PCI	2	0	Fiber	LC	Intelligent	Fail-over software
RM675MT	PCI	2	0	Fiber	MT	Intelligent	Fail-over software
RM675VF	PCI	2	0	Fiber	VF-45	Intelligent	Fail-over software
RM676SC/1	PCI	0	1	Fiber	SC	Non-Intelligent	82546 based
RM676LC/1	PCI	0	1	Fiber	LC	Non-Intelligent	82546 based
RM676TX/1	PCI	0	1	Copper	RJ45	Non-Intelligent	82546 based
RM676SC/1/LX	PCI	0	1	Fiber	SC	Non-Intelligent	82546 based; single mode fiber
RM676LC/1/LX	PCI	0	1	Fiber	LC	Non-Intelligent	82546 based; single mode fiber
RM674TX/2	PCI	0	2	Copper	RJ45	Non-Intelligent	82544 based
RM674/2	PCI	0	2	Fiber	LC	Non-Intelligent	82544 based
RM676TX	PCI	0	2	Copper	RJ45	Non-Intelligent	82546 based
RM676SC	PCI	0	2	Fiber	SC	Non-Intelligent	82546 based
RM676LC	PCI	0	2	Fiber	LC	Non-Intelligent	82546 based
RM676SC/LX	PCI	0	2	Fiber	SC	Non-Intelligent	82546 based; single mode fiber
RM676LC/LX	PCI	0	2	Fiber	LC	Non-Intelligent	82546 based; single mode fiber
RM674TX/4	PCI	0	4	Copper	RJ45	Non-Intelligent	82544 based
RM674/4	PCI	0	4	Fiber	LC	Non-Intelligent	82544 based
RM674/4LX	PCI	0	4	Fiber	LC	Non-Intelligent	82544 based; single mode fiber
RM677TX	PCI	0	4	Copper	RJ45	Non-Intelligent	82546 based, PCI-X
RM677	PCI	0	4	Fiber	LC	Non-Intelligent	82546 based, PCI-X
RM677/LX	PCI	0	4	Fiber	LC	Non-Intelligent	82546 based, PCI-X; single mode fiber
RM678TX	PCI	0	4	Copper	RJ45	Non-Intelligent	5708 based, PCI-X
RM678	PCI	0	4	Fiber	LC	Non-Intelligent	5708 based, PCI-X
RM678/LX	PCI	0	4	Fiber	LC	Non-Intelligent	5708 based, PCI-X; single mode fiber

GE Fanuc Embedded Systems Information Centers

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	1 (256) 880-0444
Ventura, CA	1 (805) 650-2111

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Additional Resources

For detailed technical specifications and product ordering information, please visit the GE Fanuc Embedded Systems web site at: www.gefanuc.com/embedded

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Rev. 1 03/04 GFA-588

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