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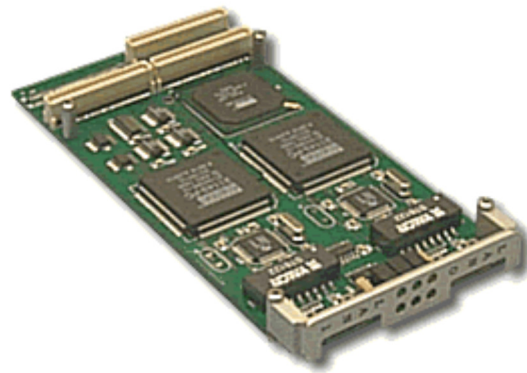
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pmc663 dual 10/100basetx pmc ethernet controller

- ▶ pci mezzanine card (pmc) ieee 1386
- ▶ two 10/100mbit ethernet connection ports via low profile Hirose connectors (transition cables provided)
- ▶ full duplex operation in both 10/100 modes
- ▶ auto negotiation
- ▶ automatic configuration to highest possible speed
- ▶ dma engine



with dual 100/10mbit ethernet interfaces the pmc663 pci mezzanine card (pmc) card delivers highest networking performance. two 10/100basetx engines are each capable of full duplex operation in both 100 and 10 mbit modes, each of the ethernet/pci 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 couples the ethernet interfaces to the host pci bus, assuring high performance with minimum pci loading.

auto-negotiation

the pmc663 features 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 pmc663 boards can be directly cabled with a simple "cross-over". this configuration creates a full duplex 400mbit (full duplex) dedicated data path - delivering good bandwidth at very low cost. more complex, dedicated interconnects can be created using a hub or switch. note that both point-to-point, and switched hubs, in full duplex mode, remove many determinism concerns raised with traditional ethernet solutions. this makes the pmc663 an excellent candidate for high performance interconnects that require real time determinism.

software support

ramix has software drivers for popular operating systems (e.g. vxworks, psos, lynxos, digital unix etc.). these drivers have been carefully designed to fit within the lan protocol stack of the host operating system. all facilities available from the host os can be utilized with the pmc663. ramix drivers allow user control over the pmc663 auto-negotiation capability.

functional specifications

| | |
|------------------------|---|
| i/o connections | high density card edge connector with rj45 transition cable |
| compatibility | pci rev. 2.1 ieee 1386 (pmc) ieee 802.3 |

operating systems

| | |
|----------------|--|
| drivers | vxworks, psos, lynx, digital64, hp-ux, linux, solaris, nt |
|----------------|--|

electrical / mechanical

power 1w

size ieee 1386, standard single pmc card

operating temperature 0° c to +65° c

storage temperature -40° c to + 80° c

relative humidity 5% to 95% (non-condensing)

ordering info

when ordering specify the pmc663 model followed by operating system and processor architecture.

part number pmc663

software environment (sev) vxworks (sed) digital unix
(sel) lynxos (ses) solaris
(sep) psos (seh) hpux
(set) nt 4.x (seu) custom

processor architecture (arc) power pc (ar6) r6000
(ar8) 68k (arf) alpha
(ars) sparc (ara) pa-risc
(arp) x86 (arx) custom

example pmc663-sev-arc// pmc663 in vxworks environment on power pc



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