

IC-2GB-PMCa

Dual Giga Ethernet Port PMC module

IC-2GB-PMCa

Single or Dual Giga Ethernet channels compliant with IEEE802.3, 802.3u, 802.3ab.

Transceivers for:

- 10/100/1000Mbps with full or half-duplex operation.
- IEEE802.3ab auto-negotiation and auto-MDIX.

Copper or fiber interface.

64Kbytes configurable RX and TX packet FIFO per port.

IEEE802.3x compliant flow control support with software controllable thresholds.

Caches up to 64 packets descriptors in a single burst.

Programmable host memory receive buffer up to 16KB.

Interrupt moderation controls

Advanced packet filtering with up to 16 exact matched (unicast or multicast) and promiscuous transfer mode.

VLAN tag insertion and stripping.

Jumbo frame support.

PCI 33 or 66MHz and PCI-X 133MHz bridge with 32 or 64 bits.

Leds signaling : activity and link.



Description

IC-2GB-PMCa is a highly integrated 10/100/1000 Ethernet controller fully compliant with the applicable sections of IEEE802.3.

It provides one or two ports with copper or Fiber interface. MTRJ or LC connectors are available for fiber interfaces.

IC-2GB-PMCa is optimized to deliver both high-performance networking and PCI/PCI-X bus efficiency. This PMC board handles Giga Ethernet traffic with low network latency and minimal internal processing overhead. The controller's architecture includes independent transmit and receive queues to limit PCI bus traffic. Advanced interrupt moderation hardware manages interrupts to improve system efficiency.

Drivers for the main RTOS and Linux are available for the **IC-2GB-PMCa**.

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Standard Conformance

Media access controllers fully compliant with the applicable sections of IEEE802.3 (Ethernet), IEEE802.3u (Fast Ethernet), IEEE 802.3x (full-duplex flow control)

Emissions

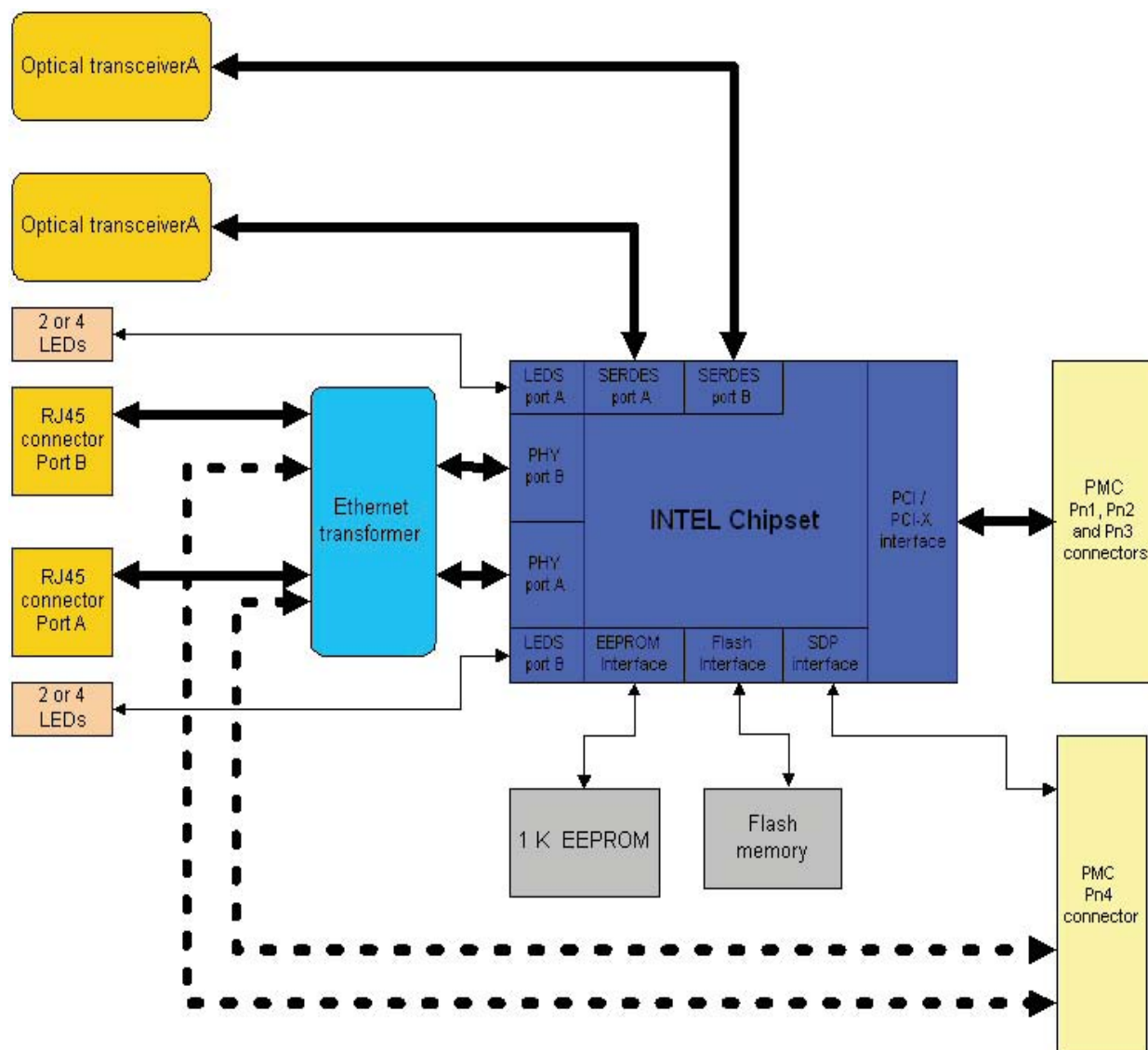
EN55022 Class A

Immunity

CEI 50082-1 (EN61000-4-2, -3, -4, -5, -6, -11)

Security

EN60950



Environnement Specifications:

Please refer to information below.

Ordering Information:

Please consult the **IC-2GB-PMCa datasheet** at www.interfaceconcept.com (listing all products reference and environment grades availability).

This document supersedes any earlier documentation relating to the products referred to herein. The information contained in this document is current at the date of publication. It may subsequently be updated or withdrawn without notice.

