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FP 110/008

N, E - Series

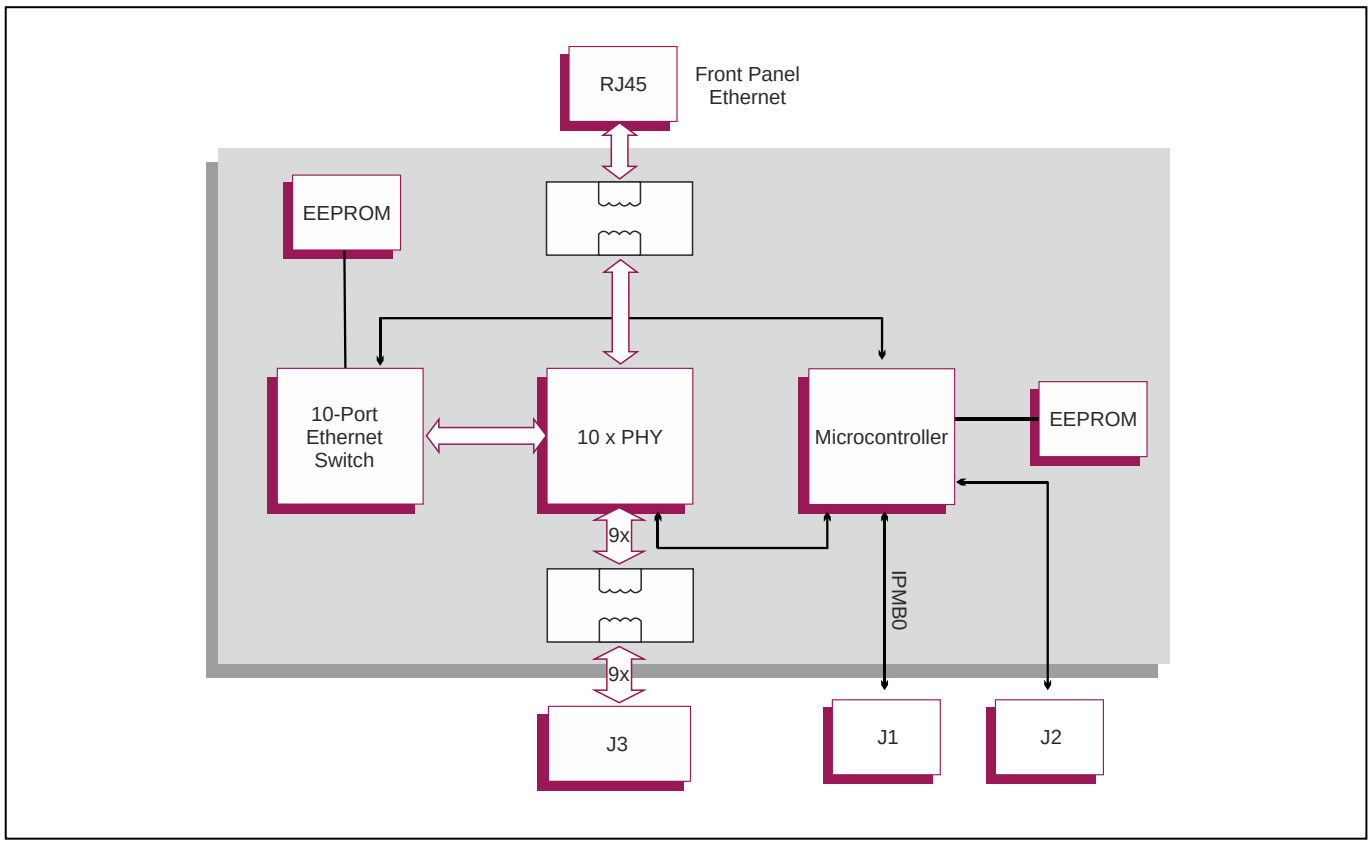
10/100/1000 Ethernet Switched Fabric Board

Key Features

FP 110/008 is an entry-level Ethernet Switched Fabric Board for use in CompactPCI® PICMG® 2.16 and VITA 31.1 Packet Switched Backplane environments.

- Supports up to 8 Packet Switched Backplane boards at 10/100/1000Mbps Ethernet speeds
- Includes rear port for fabric board to fabric board link and front panel Ethernet port via RJ45 connector
- Non-blocking Layer 2 switching for wire-speed throughput
- Virtual LAN (VLAN) and Quality of Service (QoS) support
- Extended temperature version available





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Specification

Ethernet Switched Fabric

- 10-port 10/100/1000Mbps Ethernet Switched Fabric board:
  - for use with PICMG® 2.16 and VITA 31.1 Packet Switched Backplanes (PSB)
- high performance Ethernet Switched Fabric:
  - implemented by Marvell® 88E6185 single-chip switch
  - Layer 2 non-blocking fabric
  - 8K MAC address cache with automatic learning and aging
  - full Virtual LAN (VLAN) support
- auto-negotiation on all ports:
  - 10/100/1000Mbps
  - full/half duplex
- EEPROM storage for user configuration data

Backplane Interfaces

- compatible with CompactPCI® Packet Switched Backplane (PSB):
  - conforms to the relevant sections of PICMG 2.16 R1.0
- compatible with ANSI/VITA 31.1-2003 Gigabit Ethernet on VME64x backplanes
- 8 PSB Ethernet ports for PSB node boards
- Ethernet port for linking with second fabric board:
  - enables redundant fabric board or
  - increases the number of Ethernet ports in the system
- J1, J2 and J3 connectors fitted as standard

Front Panel Interfaces

- RJ45 connector for 10/100/1000Mbps Ethernet User port
- speed and Link/Activity LEDs for all Ethernet ports
- 1 user LED
- reset switch (recessed)

System Management

- board health and status management:
  - conforms to PICMG® 2.9 R1.0 (System Management Specification)
  - implements the IPMB0 interface on J1
  - microcontroller-based Peripheral Management Controller
  - EEPROM for Field Replaceable Unit (FRU) and Sensor Data Record (SDR) storage
- network management:
  - extensive statistics counters per port
  - SNMP support for Remote Monitoring (RMON)
  - IGMP snooping (IPv4)
  - MLD snooping (IPv6)
  - accessible via the IPMB0 interface
- hot swap insertion and removal

Virtual LAN (VLAN)

- hardware based VLAN operation supporting:
  - port-based membership
  - IEEE 802.1Q VLAN (up to 4096 VLANs)
- offering security through:
  - controlling group membership
  - providing Layer 2 firewall protection

Quality of Service (QoS)

- prioritized packet streams for management of voice, video and data
- 4 hardware priority queues per port
- fixed priority or weighted fair queuing
- QoS traffic classification, determined by:
  - MAC address (SA or DA)
  - port ID
  - IEEE 802.1Q VLAN ID
  - IEEE 802.1p multimedia traffic tags
  - IPv4 Type of Service (TOS) or DiffServ
  - IPv6 Traffic Class

Electrical Specification

- +5V (+5%/-3%) @ 3.0A (maximum)
- +12V (+5%/-5%) @ 0.01A (maximum)
- +3.3V and -12V supplies are not required

Safety

- PCB (PWB) manufactured with flammability rating of UL 94V-0

Environmental Specification

- operating temperature:
  - 0°C to +55°C (N-Series)
  - -25°C to +70°C (E-Series)
- -40°C to +70°C (non-operating)
- 10% to 90% Relative Humidity, non-condensing

Mechanical Specification

- 6U form factor: 9.2 inches x 6.3 inches (233mm x 160mm)
- single slot: 0.8 inches (20.3mm)
- connectors: IEC-1076-4-101 for J1 and J3
- shock:
  20g, 11ms, ½ sine (operating);
  30g, 11ms, ½ sine (non-operating)
- vibration:
  5Hz-2000Hz at 2g, 0.38mm peak displacement (operating);
  5Hz-2000Hz at 5g, 0.76mm peak displacement (non-operating)

Please contact your local Concurrent Technologies sales office for further details on board build options and accessories.

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