

# ETH29-G Temporary Data Sheet

## ETH29-G - Intelligent 10/100/1000 Mbit Ethernet board for VMEbus systems

The ETH29-G is an intelligent high performance VMEbus Ethernet controller board. It has been designed to support extremely high data transfer rates with a minimum impact on the system load. The board combines a true 32-bit architecture with a powerful RISC processor to enable the utilization of the Ethernet network's maximum throughput. The Motorola PowerQUICC II Pro processor handles all of the local network protocols up to Layer 5 and thus enables an effective transfer rate of up to 4 MByte/sec. with all network protocols. The ETH29-G board supports all of today's standard protocols (TCP/IP, DECNet, ISO/OSI protocol) All of the N.A.T. network protocols are based on N.A.T.'s Universal Protocol Stack Architecture (UPSA) which supports the simultaneous and independent execution of different network protocols on the ETH29-G board. Drivers for VxWorks and others are available.



### Technical Data ETH29-G:

#### Bus Interface:

- VMEbus Rev. C1, ANSI/IEEE STD1014-1987
- D32/A32, D16/A24
- all standard and extended addressing modes
- VMEbus interrupter and Mailbox IRQs

#### Processor:

- Freescale PowerQuicc II Pro CPU at 667MHz

#### Memory:

- Communication RAM: 4/16/32 MB Dual ported RAM
- Processor RAM: 32 MB DDRAM
- 4 MByte Flash EEPROM for firmware

#### Network:

- two twisted pair interface 10 BT, 100BT, 1000BT
- dual USB 2.0 or dual RS232 Interface (assembly Option)

#### Protocols:

- TCP/IP
- DECNet
- ISO/OSI, Sinec H1
- concurrent handling of different protocols

#### Drivers:

- vxWorks
- Linux

#### Throughput:

- 10 MByte/sec at the packet Layer (1000BT)
- up to 4 MByte/sec. with TCP/IP and 1000BT interface

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ETH29, ETH29-F and ETH29-FC:

- These products are no longer manufactured !
- The succeeding product is the product shown above, the software compatible ETH29-G