

### Overview:

The VRM-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 VRM-ETH29-G board supports all of today's standard protocols (TCP/IP, DECNet, ISO/OSI protocol). All of the NAT network protocols are based on our Universal Protocol Stack Architecture (UPSA) which supports the simultaneous and independent execution of different network protocols on the VRM-ETH29-T board. Drivers for VxWorks and others are available.

### Features:

- 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: 4/16/32MB Dual ported RAM, Processor RAM: 32MB DDRAM, 4MByte Flash EEPROM for firmware
- Network: two twisted pair interface 10BT, 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: 10MByte/sec at the packet Layer (1000BT), up to 4MByte/sec. with TCP/IP and 1000BT interface

