

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

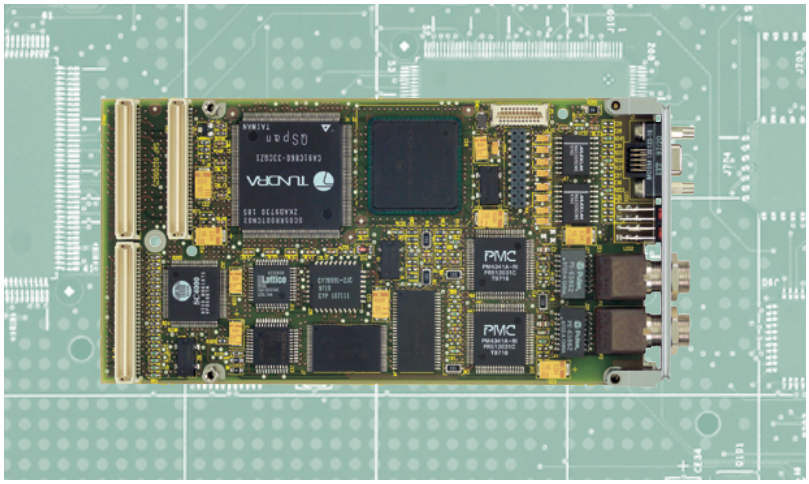
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Emerson / Motorola / Force Computers PMC-860* at our website: ***Click HERE***

# PMC/860

DATASHEET

## High-performance E1 or T1 Interface Telecom Controller for SS7, LAPD and V5.x Applications



*PMC/860*

- **Telecommunications**
- **Datacommunications**
- **Industrial Control**
- **Government**

### Features

- PowerQUICC MPC860MH processor, 66 MHz
- 16 MB DRAM, 256 KByte fast SRAM
- 2 MByte Flash
- Two E1/T1 interfaces on front panel
- Debug port and S/W controlled status LEDs
- Optional CompactPCI RTB (Rear Transition Board) for rear I/O routing of E1/T1 and debug port
- TDM bus interface to SCbus backplane on PowerCore-6603/4 and to H.110 backplane on PowerCore CPCI-6750
- LAPD/ISDN, Frame Relay, X.25, MTP-2/SS7 Protocol software via Force Partner Program

### Highlights

The PMC/860 is a PCI mezzanine card that combines E1 or T1 and TDM telephony bus connectivity with the Motorola PowerQUICC processor. With PMC/860, you'll bring your telecom products to market faster because you'll have the tools you need in-hand to develop IN/AIN and wireless infrastructure products and services in the simplest, most convenient way possible.

FORCE COMPUTERS®
A SOLECTRON SUBSIDIARY

SPECIFICATIONS

## General

### Processor Subsystem

- PowerQUICC MPC860MH
- 87 MIPS @ 66 MHz
- 16 MByte shared EDO DRAM
- 256 KByte fast SRAM
- 2 MByte Flash PROM
- PCI Rev. 2.1 interface, up to 33 MHz supported

### I/O Subsystem

- Two E1 or T1 interfaces
- RS-232 Debug port
- SCbus on PMC User I/O connector

### Front Panel

- Two E1 or T1 interfaces via shielded circular connector
- Debug port on Micro D-Sub9 connector
- 2x 3 LEDs

### Switching Subsystem

- Time slot multiplexer
- Connects to external SCbus
- Connects locally to two E1 or T1 interfaces and two PowerQUICC TDM channels (32 x 64 Kbit/s each)
- Supports SCbus at 512, 1024 or 2048 time slots bandwidth
- Time slots are simplex bi-directional with broadcast support

### SCbus and Local Clocking

- E1 or T1 or SCbus can be selected as clock master for the local system
- On-board clock for local clock generation
- SCbus master, slave and clock fallback support

## Product Variants

- PMC/860/66-T1-100: 2 T1/100 Ohm interfaces
- PMC/860/66-E1-120: 2 E1/120 Ohm interfaces
- PMC/860/66-E1-75: 2 E1/75 Ohm interfaces
- PMC/860/66-T1-R: 2 T1 interfaces to PMC user I/O connector
- PMC/860/66-E1-R: 2 E1 interfaces to PMC user I/O connector

## Environmental

- Storage Temperature: -40°C to +85°C
- Operating Temperature: 0°C to +55°C
- ETS 300 019-1-1/1.1 (storage), ETS 300 019-1-3/3.3 (operation)

## Power Consumption

- 1100 mA @ 5 V max.
- 600 mA@3.3V max.

## Dimensions

- PMC Module Type 1 (single width), IEEE P1386 compliant
- 150 mm x 75 mm / 5.90" x 2.95"

## Factory Assembly Options *(Please ask for availability)*

- No SC4000/HSCX, but Framer to PowerQUICC direct connection
- No PowerQUICC assembled, but Framer, etc. controlled from host
- One V.11 interface on front panel (instead of debug port)
- Debug port routed to front panel connector
- 4 MByte Flash PROM (replacing 2 MByte)

FORCE COMPUTERS®
A SOLECTRON SUBSIDIARY

## Accessories

- Cable, RJ-45 (male) to circular connector for usage with E1/120 Ohm and T1/100 Ohm product variants
- Cable, BNC to circular connector for usage with E1/75 Ohm
- Cable, debug port
- RTOS BSP (Tornado™)

## Agency Approval/Compliance

- EMC/EMI: FCC Part 15, CE approval (EN 55022, EN 50082-2)
- Safety: UL 1950, EN 60950
- Telecom: ITU G.703/704, ITU G.823
- FCC Part 68
- ETS 300 011 (layer 1)

FORCE COMPUTERS® A SOLECTRON SUBSIDIARY

www.forcecomputers.com

**Force Computers is the Partner of Choice for Open, Scalable, Highly Available Embedded Computing Platforms to the leading OEM's in the Communications Market**

**THE AMERICAS**
**Corporate Headquarters**

Force Computers Inc.
5799 Fontanoso Way
San Jose, CA 95138-1015
Tel.: (408) 369-6000
Fax: (408) 371-3382

**EUROPE**
**European Headquarters**

Force Computers GmbH
Prof.-Messerschmitt-Str. 1
D-85579 Neubiberg/München
Tel.: +49 (089) 608 14-0
Fax: +49 (089) 609 77 93

**ASIA**
**Japanese Headquarters**

Force Computers Japan K.K.
Shiba Daimon MF Building 4F
2-1-16 Shiba Daimon
Minato-ku, Tokyo 105-0012
Tel.: +81 (03) 3437 3948
Fax: +81 (03) 3437 3968




*Specifications subject to change without notice. Contact Force Computers for complete technical detail, configuration options and ordering information. All brands or products are trademarks of their respective holders.*

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP