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 *GE Fanuc PC8400-1211A-DB* at our website: *Click HERE*

GE Fanuc Automation

# Talon 8400 Specifications




## Celeron® M-Based Embedded PC

### Features:

- Intel® 733 MHz Celeron® M processor
- 256 Mbyte of 144-pin SODIMM-based DRAM
- 256 Kbyte on-die L2 cache
- DIN rail, panel or table top mounting
- PC/104-Plus expansion site, stackable with three slots
- Two Cardbus/PCMCIA slots (Type I, Type II, and Type III), front panel mounted
- Four front panel mounted software selectable RS232/485, 16550C-compatible serial ports
- Two Fast Ethernet ports supporting 10BaseT and 100BaseTX interfaces
- 25-pin IEEE 1284 port (LPT1)
- Four USB 2.0 ports, front panel mounted
- Internal EIDE port for OS installs available to user and internal EIDE hard drive
- SVGA up to 1600 x 1200
- PS/2 keyboard and mouse controller
- Nine LEDs for status information
- 32 Kbyte NVRAM
- Front panel reset/power switch with electronic shutdown
- Fanless Operation
- Battery backed real time clock
- Watchdog timer
- Two 16–bit and two 32-bit programmable timers
- Operating system support for Windows® XP Professional

FANUC
Embedded Systems

GE FANUC Parts

| Ordering Options | | | | | | | |
|---|---|---|---|---|---|---|---|
| March 14, 2006 800-318400-000 B | | A | B | C | D | E | F |
| PC8400 | – | | | | | | 0 |

**A = Processor**
0 = Reserved
1 = 733 MHz Processor
**B = System DRAM**
0 = Reserved
1 = Reserved
2 = 256 Mbyte
**C = Hard Drive Capacity**
0 = Reserved
1 = 20 Gbyte or Greater
**D = Temperature**
0 = Reserved
1 = -20° to 70° C (Extended)
2 = 5° to 40° C (Standard)
**E = Operating System**
0 =No Operating System
1 = Windows XP Professional
**F = 0 (Options reserved for future use.)**

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
Email: info.embeddedsystems@gefanuc.com
Web Address: www.gefanuc.com/embedded

Copyright © 2006 by GE Fanuc Embedded Systems
Specifications subject to change without notice.

## Functional Characteristics

**Introduction:** The Talon 8400 utilizes the Intel Celeron M-based microprocessor. The Talon 8400 is packaged in a DIN rail mountable robust aluminum housing for easy installation in system control cabinets. The Talon 8400 through its USB ports and PCMCIA slot allows the flexibility to upgrade your environment as well as mix-and-match products to use the most current and cost-effective technologies.

**Microprocessor:** The Talon 8400 utilizes the Intel Celeron M-based microprocessor, offering processor speeds of 733 MHz.

**DRAM Memory:** The Talon 8400 accepts one 144-pin SODIMM PC133 module. The factory standard memory configuration is 256 Mbyte. Other memory configurations can be supported.

**PC/104-Plus Expansion Site:** A PC/104-Plus expansion site uses standard communication software and hardware technologies based on the PCI 2.2 bus standard. A PC/104-Plus expansion site distributes basic controller functions and responsibilities among standard PC "plug-and-play" components. There are three stackable PC/104-Plus expansion sites, which can be accessed by removing the top cover.

The Talon 8400 has an operating threshold of 40°C, with an extended operating temperate range of 50°C without the PC/104 cards installed. Adding PC/104 cards will add additional heat inside the unit and could cause overheating depending on the power dissipation in the PC/104 cards and the ambient operating temperature.

To support the user who adds PC/104 cards, an over temperature LED will be activated if the unit exceeds a preset internal temperate threshold of 70°C. This will serve as a visual indication to the operator and does not control the fan drive. An internal fan controller provides the capability to drive an external/internal +12VDC fan (user installed). The setpoint for the internal fan controller is user selectable through the system BIOS.

**PC Card Socket (Cardbus/PCMCIA):** The Talon 8400 provides two PC card sockets compliant with the PC Card Standard. The sockets support Type I, Type II and Type III PC cards. However if using a Type III PC card, only one slot will be available.

**Serial Ports:** Four high performance 16550C-compatible serial ports, front panel mounted, software selectable, individually isolated RS232/485 ports. The four serial ports are available through the front panel using standard DB9 connectors. The serial ports have independent 128-byte FIFOs to support baud rates up to 115 Kbaud.

**Ethernet Controller:** The Talon 8400 provides two 10BaseT and 100BaseTX Ethernet connections. Two standard RJ45 connectors are located on the front panel.

**IEEE 1284 Port:** The IEEE 1284 port connector allows the user to attach to a conventional parallel port peripheral. While in the parallel port configuration, it is a fully bi-directional parallel port meeting IEEE-1284 standards (EPP, and ECP). The parallel port contains a 16 byte FIFO to allow data rates up to 2 Mbyte/s in ECP mode.

**Universal Serial Bus (USB):** The Talon 8400 provides four universal serial bus (USB) ports that are 2.0-compatible. Supported USB features include: isochronous data transfers, asynchronous messaging, self-identification, configuration of peripherals and dynamic (hot) attachment. Front panel connectors allow access to the ports.

**Video Graphic Controller:** The full function integrated 2D graphics accelerator provides pixel processing and rendering functions. Display resolutions up to 1600 x 1200 are supported. The video output is through a standard SVGA connector on the front panel.

**Keyboard and Mouse Ports:** The Talon 8400 provides a standard PS/2 keyboard and mouse. The mouse and keyboard connector is a standard 6-pin female mini-DIN PS/2 connector. A "Y" splitter cable is used to provide separate mouse and keyboard connections. The "Y" splitter cable is provided by GE Fanuc Embedded Systems (P/N 360-000153-000). Cables supplied by other vendors may vary.

**Nonvolatile SRAM:** The Talon 8400 provides 32 Kbyte of nonvolatile SRAM. The contents of the SRAM are preserved when power is interrupted or removed from the unit.

**Timers:** The Talon 8400 provides two 16-bit and two 32-bit timers and a 32-bit watchdog timer. These timers are software programmable, can be combined to make 64-bit timers, and are programmable to generate non-maskable interrupts (NMI).

## Operating System and Software Support

The Talon 8400 is available with the optional Windows XP Professional OS.

**Dimensions:** DIN rail mounted Embedded PC

Height 3.54 in. (90mm)
Depth 5.67 in. (144mm)
Width 9.70 in. (231.14mm)

**Power Requirements:** +15 - 30VDC nominal input power, @ 35W

**Temperature:**
Operating: 5° to 40° C, optional extended temperature: -20° to 70° C
Storage: -40° to 65° C (standard), -40° to 85° C (extended)

**Relative Humidity:** 0% to 90%, noncondensing

**Shock:** 15G, 11ms

**Panel Mount Vibration:** 1G @ 42-180Hz, 0.012in: p-p @ 10-42Hz

**DIN Rail Vibration:** 0.5G @ 30-180Hz,

0.012in p-p @ 10-30Hz

**Compliance:**

UL Listed
UL60950-1 (ITE)
EN60950-1
UL508/UL1604 (Class 1 Division 2 Hazardous location model H only)
EN50021 (Type protection "n") model H only
CE (EMC and LVD)

**MTBF:** 59,000 hours

## Trademarks

Celeron and Intel are registered trademarks of Intel Corporation. Windows is a registered trademark of Microsoft Corporation. Other registered trademarks are the property of their respective owners.

GE FANUC Parts

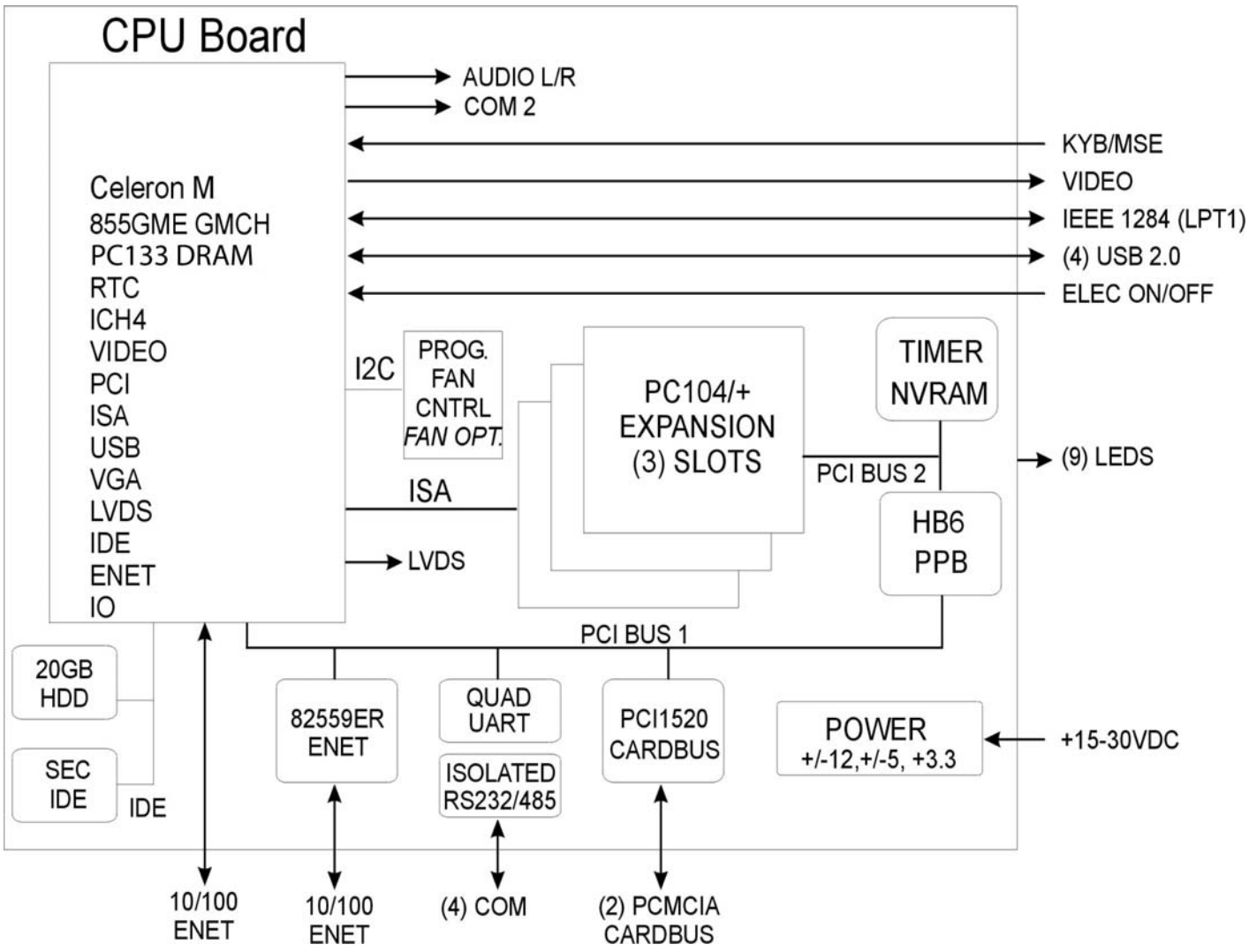



Figure 1. Talon 8400 Functional Block Diagram

Embedded Systems

GE Fanuc Embedded Systems Information Centers

Americas:

| | |
|---|---|
| Huntsville, AL | 1 800 322-3616 |
| | 1 (256) 880-0444 |
| Camarillo, CA | 1 (805) 987-9300 |
| Greenville, SC | 1 (864) 627-8800 |
| Richardson, TX | 1 (972) 671-1972 |

Europe, Middle East and Africa:

| | |
|---|---|
| Edinburgh, UK | 44 (131) 561-3520 |
| Paris, France | 33 (1) 4324 6007 |

Additional Resources

For more information, please visit the GE Fanuc Embedded Systems web site at:
www.gefanuc.com/embedded

**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