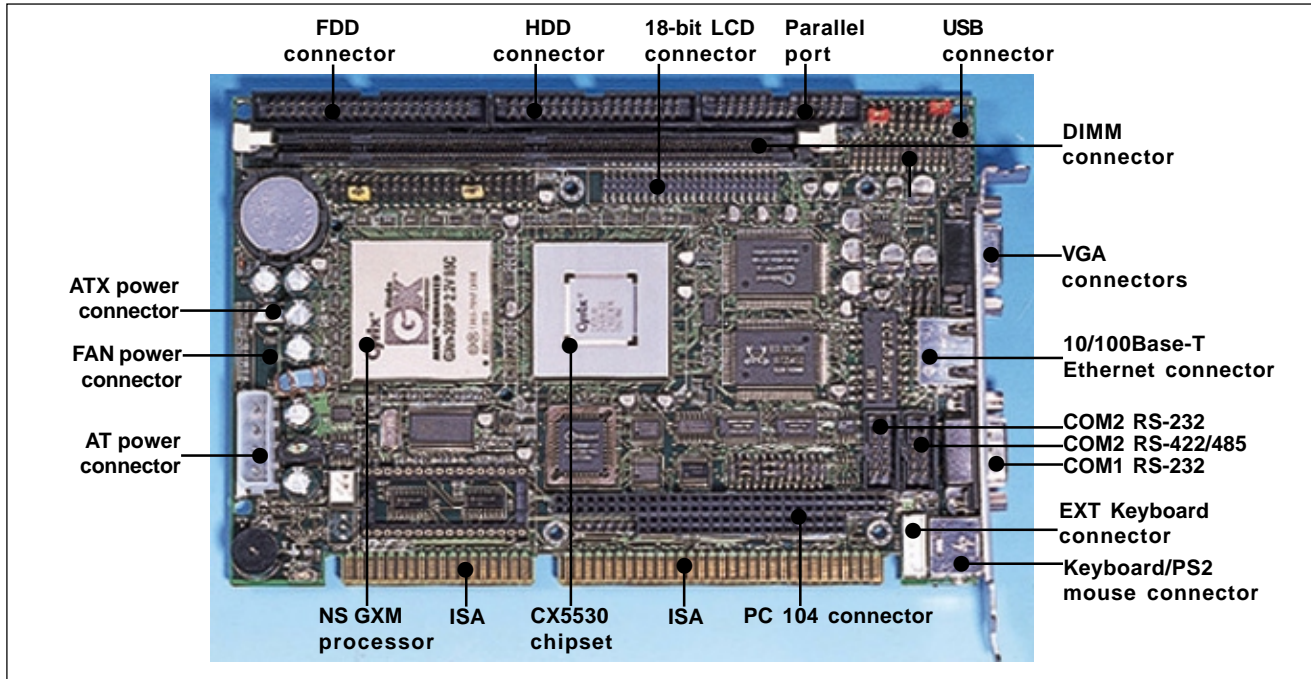


PCA-6753F

**GXM SBC with CPU, VGA/LCD,
Ethernet and SSD**



Introduction

Advantech's new PCA-6753F is a Half-size ISA bus SBC with an on-board, embedded low power 2.2 V 200 MHz NS GXM processor. Other on-board features include a VGA/LCD controller with Universal Memory architecture, 18-bit LCD TFT display, 10/100 Mbps PCI Ethernet interface. A PC/104 expansion connector is provided, plus SSD support for DiskOnChip® 2000. 62-level watchdog timer and jumperless on-line setup is also supported.

SBC with NS GXM Processor Available Now

With this board, system engineers will now be able to upgrade their 486-based systems to 586 level without as many worries, partially because a 586 level NS GXM processor is mounted directly on board. Mounting CPUs directly on board eases the configuration and installation process because there is no need to set any jumpers for speed or voltage differences between various CPUs. In addition to ease of configuration, the NS GXM 200 MHz low-power (2.2 V) CPU has been specially designed to work well in environments with temperatures of up to 60°C without need of a fan. Eliminating the CPU fan from a system significantly reduces MTBF worries and increases application possibilities.

Features

- On-board NS GXM 200 MHz low-power processor (fanless)
- On-board VGA/LCD display controller and 18-bit LCD TFT display
- 62-level watchdog timer, jumperless on-line setup supported
- Supports wake-up on LAN, Modem
- SSD support DiskOnChip® 2000
- Supports CMOS data backup functions
- PC/104 connector supports face-up installation

Specifications

- **CPU:** Embedded low power 2.2 V NS GXM 200 MHz processor (provides fanless operation)
- **BIOS:** 4 Mbit Flash BIOS, supports Plug & Play, APM 1.2
 - Supports Ethernet Boot ROM
 - Supports boot from CD-ROM
 - Supports boot from LS-120 ZIP™ Drive
 - Optional Customer icon can be supplied
- **Chipset:** NS CX5530
- **System memory:** SDRAM DIMM x 1, max. 128 MB

Specifications cont.

- **PCI IDE interface:** One Enhanced IDE interface
Supports 2 IDE devices PIO mode 3,4 with bus mastering up to 14 MB/sec. Ultra DMA model up to 33 MB/sec.
- **Floppy disk drive interface:** Supports up to two FDDs (360 KB/1.2 MB/720 KB/1.44 MB/2.88 MB)
- **Parallel port:** One parallel port, supports EPP/ECP
- **IR port:** One 115 kbps IrDA compliant serial infrared
- **Serial ports:** 2 serial ports
COM1: RS-232, COM2: RS-232/422/485
- **Watchdog timer:** 62-level timer interval, setup by software or jumperless selection, generates system reset or IRQ11 (standard) IRQ15 (optional).

SVGA/Flat Panel Interface

- **Chipset:** NS CX5530
- **Display memory:** 1.5 ~ 4 MB shared with system memory
- **Display type:** Simultaneous support for CRT and 18-bit TFT LCD display (supports 3.3 V LCD)
- **Resolution:** Non-interlaced CRT monitor resolution up to 1024 x 768 @ 256 colors, Panel resolutions up to 1024 x 768 @ 256 colors TFT panel

Ethernet Interface

- RealTek™ RTL 8139 chip
 - PCI Ethernet controller, IEEE 802.3 protocol compatible
 - Supports 10/100 Mbps Ethernet
 - Wake on LAN (via ATX power supply)
 - RJ-45 connector equipped

Power Management

- Supports APM 1.2

Solid State Disk

- Supports DiskOnChip®2000

Keyboard/Mouse connector

- 6-pin Mini-Din header connector for keyboard and PS/2 mouse

Mechanical and Environmental Specifications

- **Standard mode power consumption:** 1.54 A @ 5 V with 64 MB SDRAM
- **Operating temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Size:** 185 mm x 122 mm
- **Weight:** 0.27 Kg (0.59 lbs)

Ordering Information

□ PCA-6753F-00A1:

Half-size GXM CPU card with CPU/VGA/LCD/SSD/LAN

Optional Accessories

□ MBPC-641:

4-slot IPC chassis with backplane & 65 W power supply

□ IPC-644-80:

4-slot IPC chassis with backplane & 80 W power supply

□ IPC-6806S:

6-slot IPC chassis with backplane & 100 W power supply

□ PCA-6108:

8 ISA slot passive backplane

□ PCA-6106:

6 ISA slot passive backplane

□ PCA-6104:

4 ISA slot passive backplane

□ 1700100170:

USB cable adapters