

PCM-5820



Compact size: (145 x 102 mm) fits in the space of a 3 1/2" HDD

ISA-bus expansion with on-board PC/104 connector

On-board NS GX1-233 MHz CPU or low power GX1-300

On-board 10/100 Base-T Ethernet

On-board Audio interface

On-board VGA/LCD display controller

CompactFlash Card support

Single +5 V power supply

Provides a TV out function, NTSC and PAL format

The PCM-5820 Series of boards are a 3.5" Half-EBX SBC with an embedded low power NS GX1-233 or 300MHz processor. Other on-board features include VGA/LCD, LVDS, TV-out, Audio, a CompactFlash™ Card socket, and 10/100Base-T Ethernet. This board is feature-packed, 586-level, hassle-free solution for space critical applications. With this board, system engineers will now be able to upgrade their 486-based systems to 586-level without as many additional worries, partially because a 586-level NS GX1-233 or 300 MHz 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 this ease of configuration, this 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.

Specifications

SBC Type:
ET Single Board Computers
Processor
Processor:
On-board NS GX1-233
Clock Speed:
300 MHz
Real Time Clock:
Processor Misc.:
Chipset: NS CX5530

Memory
BIOS/Bootloader:
Award 256 KB Flash memory
Primary Flash:
1x CompactFlash™ card

Primary I/O
Disk interface:
1x FDD
1x EIDE (UDMA 33)
Audio:
AC97 NS CX5530 (Mic-in
Line-In
line-out)
Ethernet:
10/100 Mbps Ethernet IEEE 802u RJ-45 RTL8139C
USB:
2x USB
Serial Ports:
1x Parallel SPP/EPP/ECP
1x RS-232
1x RS-232/422/485
Watchdog:
Primary I/O Misc.:
Infrared port: Supports up to 115 Kbps transmitting rate

Secondary I/O
LPT Port:
Keypad:
PS/2:
Analog on
A/D:
D/A:

Dimensions
Dimensions:
5.75 × 4 in
Weight:
0.22 kg
Form Factor:
Half EBX

Power Requirements

Voltage:
5 V
Typical Current:
1.5 A
Typical Voltage:
5 V
Max Boot Current:
4 A
Power Misc.:
Power management: APM 1.1 compliant power management

Environmental
Low Operating Temperature:
0 C
High Operating Temperature:
60 C

Pricing
PCM-5820-E
GX1-233 MHZ SBC W/ LAN, Audio, VGA/LCD
\$0.00
Parent Product:

PCM-5820-G
GX1-300 MHZ SBC W/ LAN, Audio, VGA/LCD
\$0.00
Parent Product:

PCM-5820-GL
GX1-300 MHZ W/ LAN, Audio, LVDS, VGA/LCD
\$0.00
Parent Product:

PCM-5820L-E
GX1-233 MHZ SBC W/ Audio, & VGA/LCD
\$0.00
Parent Product:

Cables & Adapters:
CAB-20-001-1
44-pin to dual 40-pin EIDE Cable
\$20.00
PCM-205
LVDS For PCM-5820-GL W/ Cable
\$45.00
Extension Modules:

PCM-231A
Audio Module
\$0.00

Source URL: <https://www.emacinc.com/content/pcm-5820>