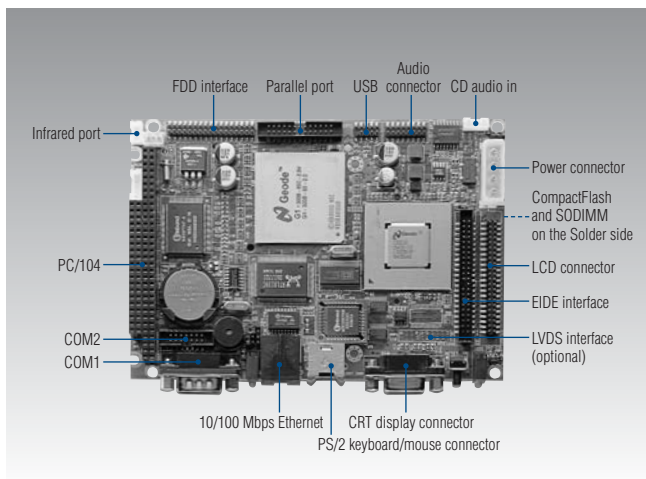


# PCM-5820

## AMD Geode SBC with CPU, Audio, VGA/ LCD and Ethernet



### Specifications

- **CPU**  
Onboard AMD Geode processor  
GX1-300 MHz processor (PCM-5820-G0B2)  
GX1-233 MHz processor (PCM-5820-E0B2)
  - **System Memory**  
SDRAM SODIMM x 1, Max. 256 MB
  - **System Chipset**  
AMD CX 5530
  - **BIOS**  
AWARD 256 KB Flash BIOS
  - **SSD**  
Supports CompactFlash™ card
  - **Watchdog Timer**  
Software enable/disable 1.6 sec. optional 65 sec.
  - **Expansion Interface**  
PC/104
  - **Battery**  
Lithium 3 V/196 mAH
- I/O**
- **MIO**  
1 x EIDE (Ultra DMA33), 1 x FDD, 1 x K/B, 1 x Mouse,  
1 x RS-232/422/485, 1 x RS-232, 1 x LPT
  - **IrDA**  
115 Kbps, IrDA 1.0 compliant
  - **Audio**  
AMD CX 5530, AC'97 2.0 compliant
  - **USB**  
2 USB ports, USB 1.0 compliant
- Ethernet**
- **Chipset**  
RealTek 8139C
  - **Interface**  
IEEE 802.3u 100Base-T Fast Ethernet compatible  
Built-in boot ROM in Flash BIOS

### Features

- Compact and powerful, less than 8 W power consumption
- 100Base-T Ethernet
- 18-bit TFT LCD interface
- AC'97 V 2.0 Audio

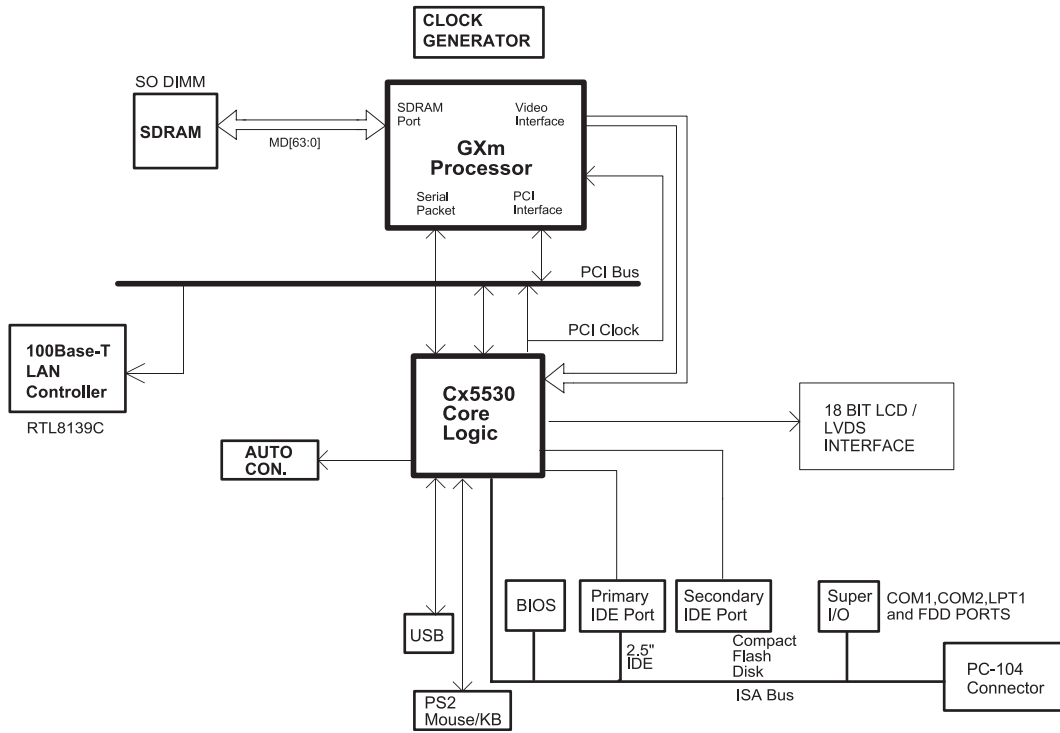
### Display

- **Chipset**  
AMD CX 5530
- **Memory Size**  
1-4 MB UMA share memory
- **Resolution**  
Up to 1024 x 768 @ 24 bpp non-interlaced CRT and  
1024 x 768 @ 18 bpp TFT LCD display  
(supports 3.3 V LCD)
- **LCD Interface**  
18-bit TTL for TFT LCD only
- **LVDS**  
18 bit ANSI EIA/TIA-644, over 10 meters transmission  
(PCM-5820-ELB1, PCM-5820-GLB1 only)

### Mechanical and Environmental

- **Dimensions (L x W)**  
145 x 102 mm (5.7" x 4")
- **Power supply Voltage**  
+5 V ± 5%,  
Max. : 4 A @ +5 V  
Typical: 1.5 A @ +5 V (for PCM-5820-G0B2)  
1.3 A @ +5 V (for PCM-5820-E0B2)
- **Operating temperature**  
0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity**  
0% ~ 90% Relative Humidity, noncondensing
- **Weight**  
0.75 kg (weight of total package)

## Board Diagram



- 1 System on Module Solutions
- 2 Single Board Computers and Accessories
- 3 PC/104 Modules
- 4 Slot CPU Cards and Accessories
- 5 AIMB/POS Control Boards
- 6 Internet Security Platforms
- 7 Embedded Software
- 8 Appx

## Packing List

- 1 PCM-5820 SBC
- 1 Mini Jumper pack [count.: 10 pcs] (p/n: 9689000002)
- 1 Keyboard & mouse cable 6P-6P-6P (p/n: 1700060202)
- 1 Audio cable for PCM-5820 (p/n: 1700160160)
- 1 Cable for LPT port (p/n: 1700260250)
- 1 COM2 cable (p/n: 1701140201)
- 1 FDD cable (p/n: 1701340603)
- 1 HDD cable (p/n: 1701440351)
- 1 USB cable (p/n: 1703100260)
- Startup manual
- Utility CD

## Ordering Information

### Standard

- **PCM-5820-E0B2** AMD Geode SBC with GX1-233 processor, Audio, VGA/LCD and Ethernet
- **PCM-5820L-E0B2** Same as PCM-5820-E0B2, but without Ethernet
- **PCM-5820-G0B2** Same as PCM-5820-E0B2, but with GX1-300 CPU
- **PCM-5820-ELB2** Same as PCM-5820-E0B2, but with LVDS
- **PCM-5820-GLB2** Same as PCM-5820-E0B2, but with GX1-300 CPU and LVDS
- **PCM-5820CE-000** PCM-5820-G0B2 with Windows® CE 3.0 on 16 MB CFC

### Optional

- **MBPC-200-5820** MicroBox 3.5" Biscuit SBC chassis for PCM-5820
- **MBPC-200-5820L** MicroBox 3.5" Biscuit SBC chassis for PCM-5820L
- **PS-50A** 50 W AC power supply for MBPC-200