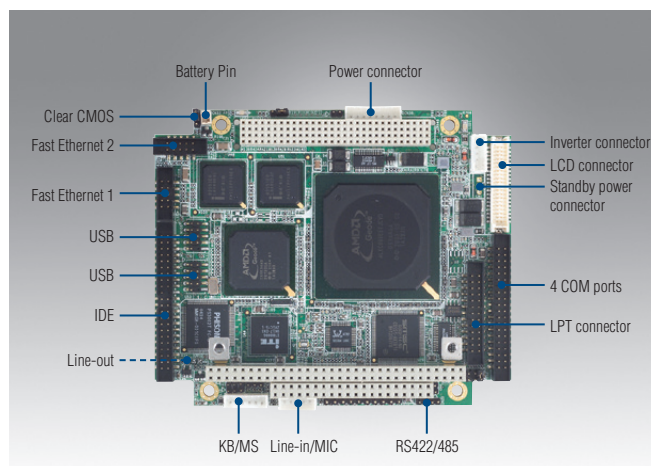


PCM-4153

AMD LX800 PC/104-Plus SBC, Onboard Memory/Flash, VGA, TTL, Extended Temp. -40 ~ 85° C



Features

- AMD low power LX800 500 MHz processor
- Supports extended temperature range -40 ~ 85° C
- PC/104-plus expansion
- Onboard 1 GB Flash and onboard DDR 333MHz 512 MB memory
- Supports SUSIAccess and Embedded Software APIs

Software APIs:



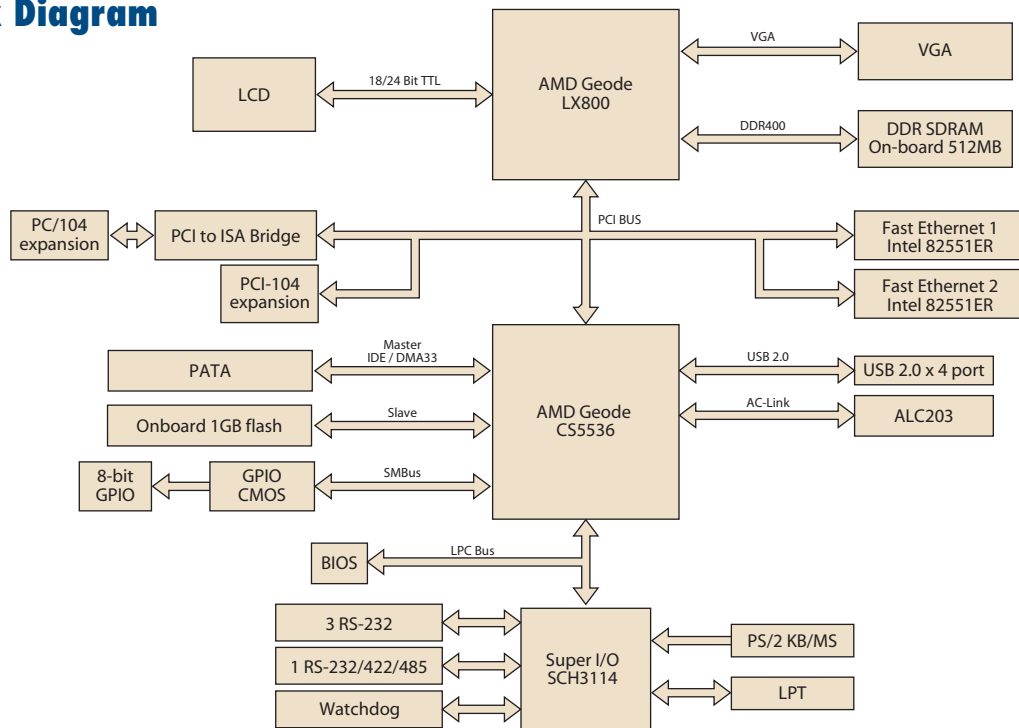
Utilities:



Specifications

Processor System	CPU	AMD Geode™ LX800, 500 MHz
	Frequency	500 MHz
	L2 Cache	128 KB
	System Chipset	AMD Geode LX800, with AMD CS5536
	BIOS	Award 4-Mbit
Memory	Technology	DDR 333 MHz
	Max. Capacity	512 MB
	Onboard memory	512 MB
Display	Chipset	AMD Geode LX800
	VRAM	Optimized Shared Memory Architecture up to 64 MB system memory
	VGA	Supports up to 1920 x 1440 x 32 bpp at 85 Hz Supports up to 1600 x 1200 x 32 bpp at 100 Hz
	TTL LCD	Supports up to 1600 x 1200 x 32 bpp at 60 Hz for 24-bit single channel TFT
	Dual Display	VGA+TTL
Ethernet	Speed	10/100 Mbps
	Controller	Fast Ethernet1: Intel 82551ER Fast Ethernet2: Intel 82551ER
	Connector	Box Header
Audio	Chipset	Realtek ALC203
Watchdog Timer		Output System Reset Programmable counter from 1 ~ 255 minutes/ seconds
Storage	PATA	1 Channel
	Onboard Flash	1 GB
	Floppy	1, 82077AA compatible (transfer from LPT, available by custom BIOS)
Internal I/O	USB	4 x USB 2.0
	Serial	3 RS-232 from COM1/3/4, 1 RS-232/422/485 from COM2 (ESD protection for RS-232: Air gap ±15kV, Contact ±8kV)
	Parallel (LPT)	1, IEEE 1284, EPP, and ECP compatible (FDD mode supported)
	SMBus	1
	Keyboard/Mouse	1
	GPIO	8-bit general purpose input/output
Expansion	PC/104-Plus Slot	1
Power	Power Type	AT
	Power Supply Voltage	5V ± 5% only to boot up (12 V is optional for LCD inverter and add on card)
	Power Consumption (Typical)	1.35 A @ +5 V, 0.1 A @ +12 V (7.95 Watts)
	Power Consumption (Max, test in HCT)	1.51 A @ +5 V, 0.1 A @ +12 V (8.75 Watts)
	Power Management	ACPI/APM1.2
Environment	Operational	0 ~ 60° C (32 ~ 140° F) (Operational humidity: 40° C @ 85% RH non-condensing)
	Non-Operational	-40° C ~ 85° C and 60° C @ 95% RH non-condensing
Physical Characteristics	Dimensions (L x W)	96 x 115 mm (3.8" x 4.5")
	Weight	0.574 kg (1.26 lb) (with heat-sink)
	Height	Top side: 11.45 mm; Bottom side: 10.6 mm

Block Diagram



Ordering Information

Part No.	CPU	Onboard Memory	VGA	TTL	Fast Ethernet	USB2.0	RS-232	RS-232/422/485	Onboard Flash	Audio	Expansion	Thermal Solution	Operating Temp.
PCM-4153F-L0A2E	AMD LX800	512 MB	Yes	18/24 bit	2	4	3	1	1 GB	Yes	PC/104+	Passive	0 ~ 60° C
PCM-4153FZ-L0A2E	AMD LX800	512 MB	Yes	18/24 bit	2	4	3	1	1 GB	Yes	PC/104+	Passive	-20 ~ 80° C
PCM-4153FZ2-L0A2E	AMD LX800	512 MB	Yes	18/24 bit	2	4	3	1	1 GB	Yes	PC/104+	Passive	-40 ~ 85° C

Note: Passive = fanless; Active = with fan

Packing List

Part No.	Description	Quantity
	PCM-4153 SBC	
	Startup Manual	
	Utility CD	
1700000898	VGA cable D-SUB 15P(F)/12P-1.25 mm 15 cm	1
1700000918	Audio cable 10 cm	
1700003491	AT power cable 1 x 8P-2.0/B4P-5.08 x 2 15 cm	1
1700060202	Cable 6P-6P-6P PS/2 KB & Mouse 20 cm	1
1700260250	LPT port cable 25P to 26P 2.0 mm 25 cm	1
1700005158	LAN flat cable IDC10P 2.0 mm/RJ-45 20 cm	1
1701400181	COM 4 ports flat cable 18 cm IDC40P 2.0 mm	1
1701440350	IDE cable 44P/44P/44P 35 cm	1
1703040157	RS-422/485 W/D-SUB COM 4P 15 cm	1
1703060053	PS2 cable 6P (MINI-DIN)-6P (Wafer 2.0 mm) 6 cm	1
1703100121	USB 2-port cable 10P 12 cm IDC 2.0 mm	1
9660104000	PC/104 screw and copper post package	1
1960005764	Heatsink for PCM-4153 (80.44 x 77.97 x 7.82 mm)	1

Optional Accessories

Part No.	Description
1653130421	PCI-104 connector 120-pin (Long pin)
165313222B	PC/104 connector 64-pin (Long pin)
165312022B	PC/104 connector 40-pin (Long pin)
1700001531	LPT to FDD cable

Embedded OS/API

Embedded OS/API	Part No.	Description
WinCE	2070000729	Image GX3 CE 5.0 Pro Plus Eng
	2070001612	CE 6.0 Pro GX3 4 Com V1.0 ENG
	2070001576	XPE FP2007 GX3 (LX800) V3.0 ENG
Win XPE	2070003216	XPE FP2007 GX3 Group V3.1 ENG (717.22 MB)
	2070003557	XPE FP2007 GX3 Group V3.0 CHS (641.41 MB)
QNX		V6.3.2/ 6.4.1
Linux		10.04.1
VxWorks		5.5
Software API	205E000019	SUSI 3.0 SW API for ESBC B: 20091116 XP