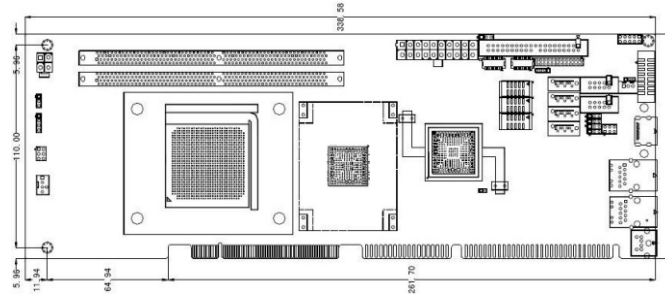
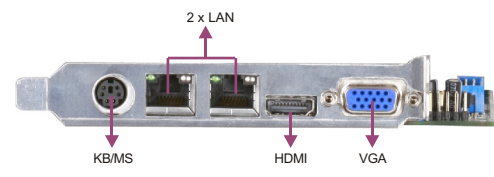
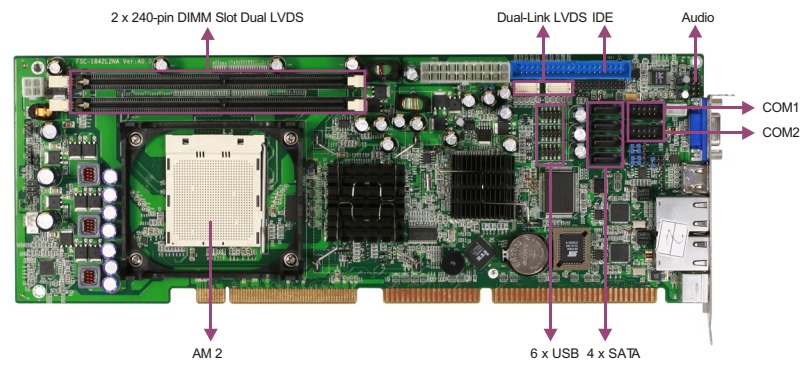


FSC-1842L2NA



Full-Size PICMG1.0 AMD Platform CPU Card with VGA/LVDS/HDMI//2GbE/Audio



Features

- PICMG1.0 Full-Size AMD AM2 platform CPU Card
- Supports all series AMD AM2 architecture CPU
- Supports up to 4GB of DD2 533/667 dual channel memory
- Onboard 2 x 10/100M/1000Mbps Ethernet Controller
- Supports CRT+LCD, CRT+HDMI, LCD+HDMI dual independent display
- Supports 6 x USB2.0, 4 x SATA2, 1 x IDE, 1x VGA, 1 x LVDS, 1 x HDMI, 2 x COM, 1 x LPT

Specifications

System

Processor	Supports AMD AM2 architecture Dual-Core Processors, AMD Sempron™, AMD Athlon™ 64, Athlon™ 64 FX, Athlon™ 64 FX X2
Chipset	AMD M690E+SB600
Memory	Supports 2 x 240-pin DIMM, up to 4GB dual-channel DDR2 533/667 memory
Hardware Monitor	Monitors system status, voltage, temperature and fan speed
Watchdog Timer	1-255 sec./min. timer system reset or interrupt, setup by software
Expansion Interface	PICMG1.0

Storage

IDE	1 x Ultra ATA 66/100 interface
Serial ATA	4 x Serial ATA 300MB/s interface, supporting RAID0,1,10
Floppy	N/A
CF	N/A
DOC/DOM	N/A

I/O Interface

USB	6 x USB2.0 Port, available interfaces of 3 x 9-pin header onboard
Serial Port	1 x RS-232, 1 x RS-232/422/485, available interfaces of 2 x 10-pin header onboard
Parallel Port	1 x LPT
IrDA	N/A
GPIO	N/A
Audio	Onboard Realtek ALC888GR, supporting Intel® HDA, available interfaces of 10-Pin header on board, Speaker-out, Line-in and Mic-in
Keyboard/Mouse	1 x PS/2

Display

Chipset	Integrated ATI Radeon X1250 graphics controller, maximum DAC frequency up to 400MHz
Memory	Onboard 128MB independent memory(optional)
Resolution	VGA mode up to 2048x1536 @85Hz (pixel clock at 388.5MHz) for 4:3 format, 2560x1440 @75Hz (pixel clock at 397.25MHz) for 16:9 format, 2456x1536 @60Hz (pixel clock at 320MHz) for 16:10 format LVDS: supports dual-link 24-bit LVDS interface, up to 230MHz maximum pixel clock rate per link HDMI: Supports 1080i, with pixel clock at 74MHz, basic audio support at 32, 44.1 and 48 kHz
Dual Display	Supports CRT+LCD, CRT+HDMI and LCD+HDMI dual independent display

Ethernet

Chipset	2 x RTL8111C
Speed	10/100M/1000Mbps
Connector	2 x RJ45

Mechanical and Environmental

Dimensions	338mm x 122mm
Operating Temperature	-15°C~65°C
Storage Temperature	N/A
Operating Humidity	5%-90%, non-condensing

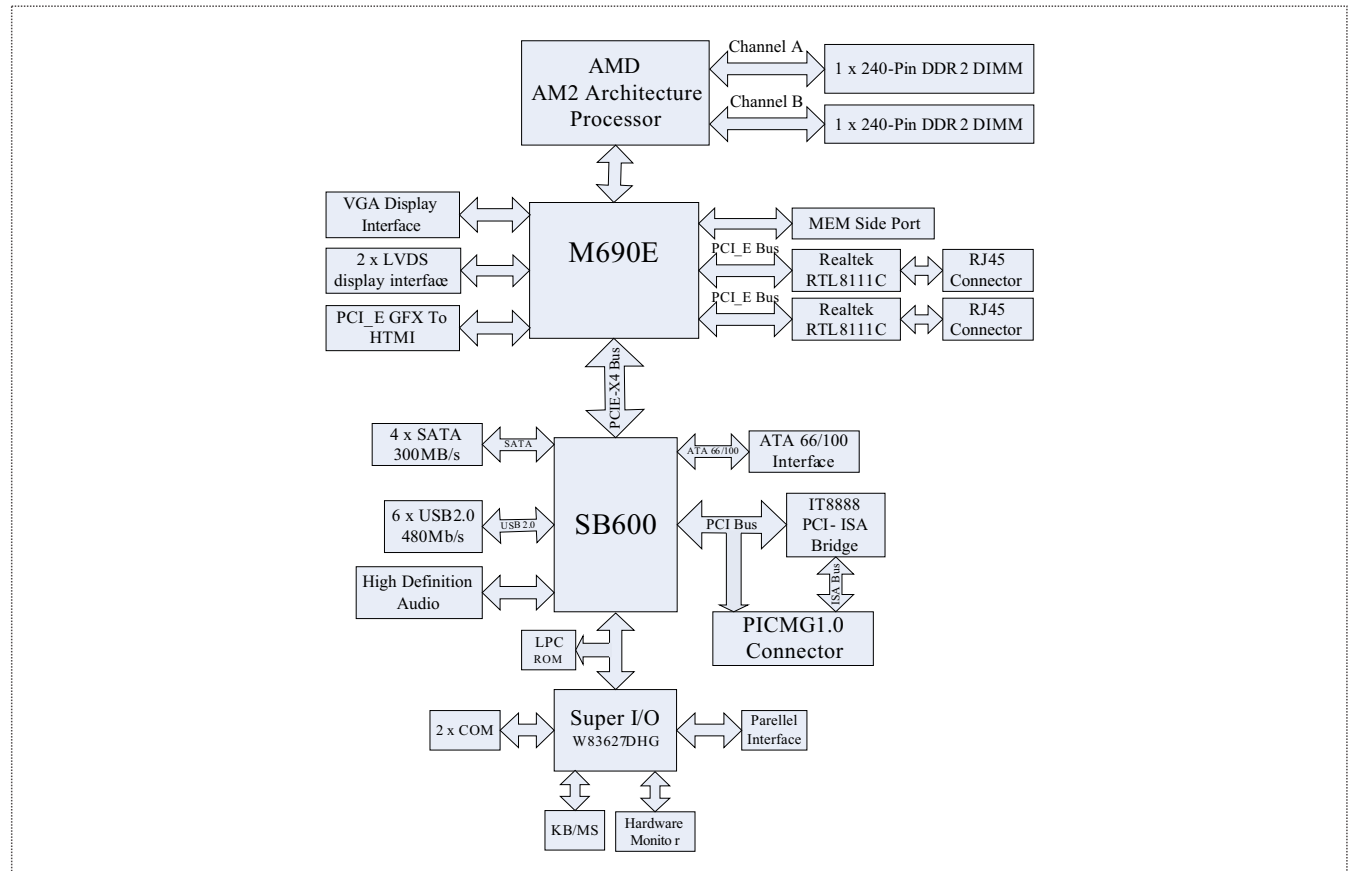
Power

Power Supply	Supports ATX power supply
Power Consumption	Typical 101W(AMD Athlon 64 X2 5000+, 2G DDR2 667 memory)

Operating System

Windows OS	Windows 2000/ Windows XP
Embedded OS	Linux/XP Embedded

Board Diagram



Available Accessories

Part Number	Name	Description	Qty.
N/A	Driver CD/Protective film/RoHS	FSC-1842L2NA	1
N/A	Setup Guide/RoHS	AMI/BIOS Setup Guide (for Core/8)	1
N/A	User Manual/RoHS	FSC-1842L2NA	1
2330-000011	Jumper/RoHS	Pitch: 2.0mm, black, sealed tail	6
2360-002621	Serial port cable/RoHS	DB9 connector to IDC 10 Pin connector (2.54mm pitch), L:250mm/RoHS	2
2360-005031	Y-cable for keyboard and mouse/RoHS	One Mini-DIN port to two PS/2 ports, L:250mm/RoHS	1
2360-008331	HDD flat cable/RoHS	DMA66/HDD/CABLE/40P/80-line/L:450mm	1
2360-011141	Audio cable with bracket/RoHS	Three audio connector with bracket to 2x5 Pin, L:300mm/FSC-1731VNRA	1
2360-011221	Parallel port cable/RoHS	DB25 connector to 26 Pin (2x13) connector (2.0mm pitch), L:300mm/RoHS	1
2360-017051	USB cable/RoHS	Dual USB ports with screws to 2x5 Pin connector, 2.0 pitch, L:550mm	3
2360-017661	VGA cable/RoHS	2x8 Pin(female)(2.54mm pitch) to DB15 VGA connector(female), L:300mm	1
2360-017961	SATAHDD cable/RoHS	SATA7 Pin to SATA7 Pin with elbow connector, L:550mm/RoHS	1
1390-007951	I/O bracket 2/FSC-1842/RoHS	Blank/143x33x1.0mm/please refer to the drawings for details	1
2391-000391	Screw/RoHS	Pan head M3x5/GB-T818-1985/nickel plating	2

Related Products

Item	Typical Recommendation
AMD CPU	AMD Sempron™ 3400+, AMD Athlon™ X2 Dual Core 4200+/5000+ Processor
4U Chassis + Backplane	4U Chassis IPC-810B, IPC-8421, IPC-2402, IPC-2403, IPC-2404, SPC-0401 Backplane IPC-6114P12, IPC-6114P7, IPC-6113LP4
Power Supply	ATX, available 270W/350W/400W

Ordering Information

Part Number	Model Number	Description
0030-000480	FSC-1842L2NA	Motherboard
0030-000481	FSC-1842L2NA	Motherboard/RoHS
0030-011930	FSC-1842L2NA-S	Motherboard/with S-Video
0030-011931	FSC-1842L2NA-S	Motherboard/RoHS/with S-Video

1 Full-Size/Half-Size Slot CPU Cards
2 SBC/Motherboard Modules
3 Embedded Box PC
4 Network Application Computers
5 Industrial PC
6 HMI
7 EVOC Rugged Series
8 MCC Series
9 Chassis
10 Data Acquisition Boards & Modules
11 Accessories

1 Full-Size/Half-Size Slot CPU Cards
2 SBC/Motherboard Modules
3 Embedded Box PC
4 Network Application Computers
5 Industrial PC
6 HMI
7 EVOC Rugged Series
8 MCC Series
9 Chassis
10 Data Acquisition Boards & Modules
11 Accessories