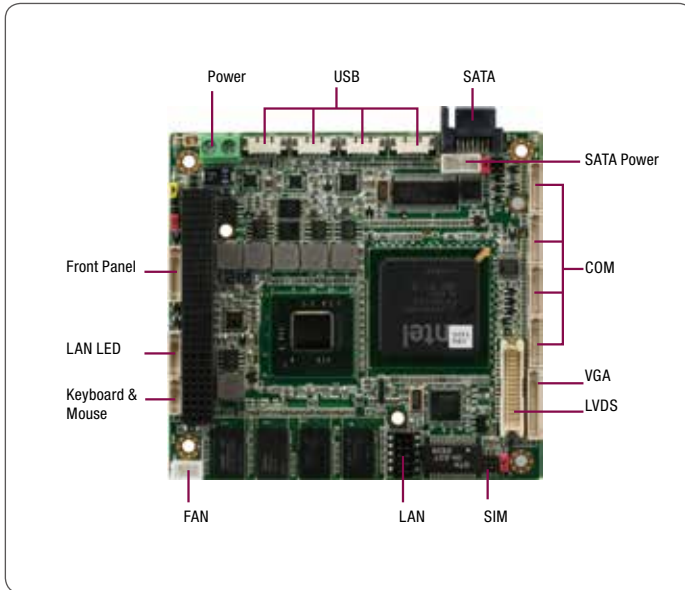


PC/104 Module with Intel® Atom™ N450 Processor



Features

- Intel® Atom™ N450 1.66 GHz Processor
- Intel® ICH8M
- Onboard DDR2 667 MHz Memory, Up to 1 GB
- Gigabit Ethernet x 1
- CRT, 18-bit Single Channel LVDS LCD
- SATA 3.0 Gb/s x 1, CompactFlash™ x 1
- USB2.0 x 4, COM x 4
- PCI-104, Mini-Card Expansion Interfaces
- +12V Only Operation

Specifications

System	
Form Factor	PC/104
Processor	Intel® Atom™ N450 1.66 GHz Processor
System Memory	Onboard DDR2 667 MHz, up to 1 GB
Chipset	Intel® ICH8M
I/O Chipset	SCH3114
Ethernet	Intel® 82567V for 10/1000/1000Base-TX x 1
BIOS	AMI BIOS – 4 MB Flash
Wake on LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports Power Supply Voltage, Fan Speed and Temperature Monitoring.
Expansion Interface	PCI-104, Mini-Card
Battery	Lithium battery
Power Requirement	12V
Power Consumption (Typical)	Intel® Atom™ N450 1.66 GHz, DDR2 667 1 GB 1.3A@+12V
Board Size	3.55" x 3.77" (90mm x 96mm)
Gross Weight	0.35 lb (0.16 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	83,000
Display	
Supports CRT/LCD simultaneous/ dual view displays	
Chipset	Intel® Atom™ N450 processor integrated
Memory	Shared system memory up to 384 MB/ DVMT 4.0
Resolutions	Up to 1400 x 1050 for CRT Up to 1280 x 768 for LCD
LCD Interface	18-bit single channel LVDS
I/O	
Storage	SATA 3.0 Gb/s x 1, Type 1 CompactFlash™ x 1
Serial Port	RS-232 x 3, RS-232/422/485 x 1
Universal Serial Bus	USB2.0 x 4
PS/2 Port	Keyboard + Mouse x 1



Packing List

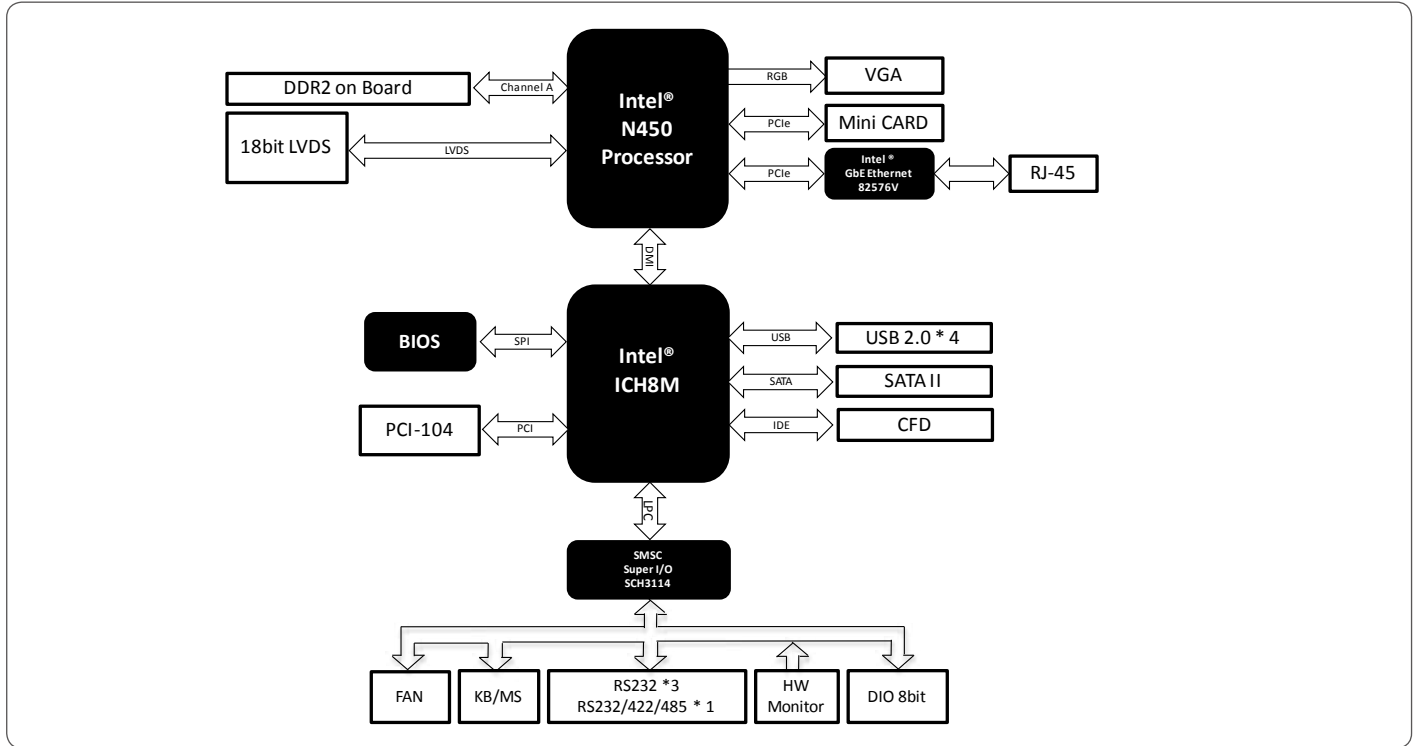
- 9657666600
Jumper Cap
- 17592LNP00
Heatsink
- Product CD
- PFM-LNP with Cooler

Optional Accessories

- 1701010150
Front Panel Cable
- 1700050207
USB Cable, Length 20cm
- 1702150121
SATA Power Cable, Length 12cm
- 1709070200
SATA Cable, Length 20cm
- 1701090150
COM Cable, Length 15cm
- 1700100201
LAN Cable, Length 20cm
- 1709150151
VGA Cable, Length 15cm
- 1702002010
Big 4P Power Input Cable, Length 10cm
- 1700060155
Keyboard & PS/2 Mouse Cable 15m

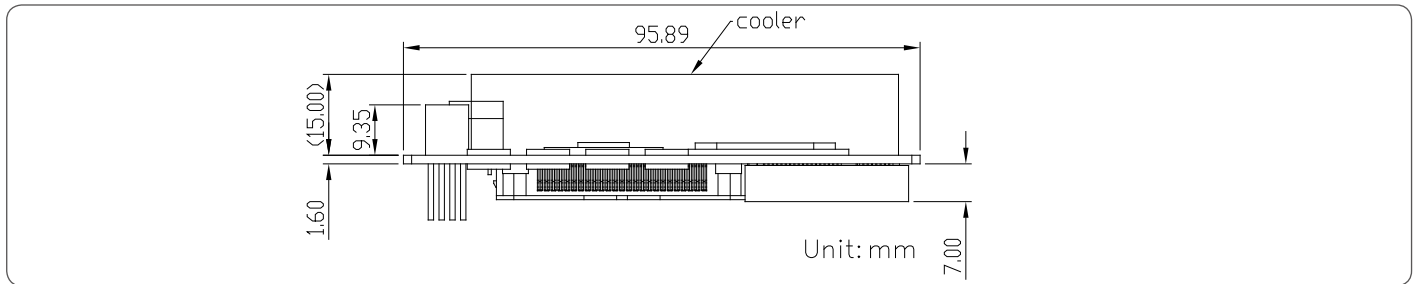
PFM-LNP

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Storage	Display	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.
PFM-LNP-A20	Intel® Atom™ N450	1 GB	Fan	SATA x 1, CompactFlash™ x 1	CRT + LVDS	18b, 1CH	GbE x 1	4	3	1	PCI-104, Mini-Card	+12W AT/ATX	0°C ~ 60°C
PFM-LNP-A20-01	Intel® Atom™ N450	512 MB	Fan	SATA x 1, CompactFlash™ x 1	CRT + LVDS	18b, 1CH	GbE x 1	4	3	1	PCI-104, Mini-Card	+12W AT/ATX	0°C ~ 60°C