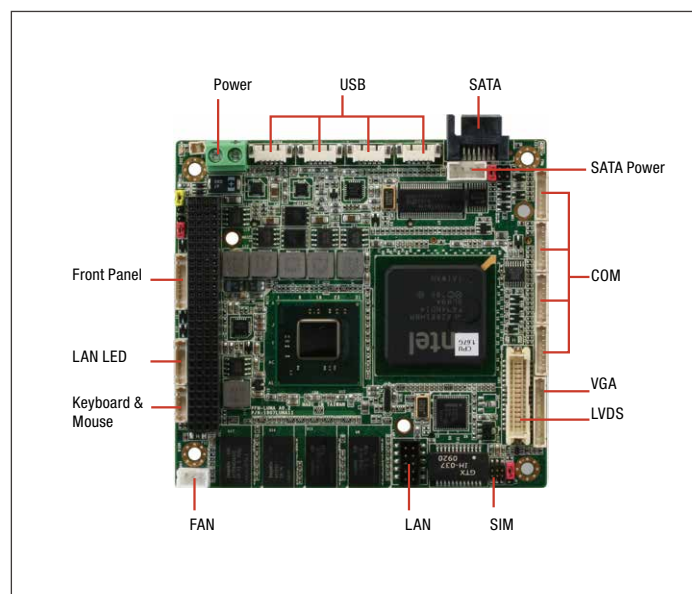


PC/104 Module with Intel® Atom™ N450 Processor



Specifications

System	
Form Factor	PC/104
CPU	Onboard Intel® Atom™ N450
CPU Frequency	1.66 GHz
Chipset	Intel® Atom™ N450 + ICH8M
Memory Type	Onboard DDR2 Memory up to 1 GB
Max. Memory Capacity	1 GB
BIOS	AMI - 4MB ROM
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V
Power Supply Type	AT/ATX
Power Consumption (Typical)	—
Dimension (L x W)	3.55" x 3.77" (90mm x 96mm)
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)	129,000
Certification	CE/FCC
Display	
VGA/LCD Controller	N450
Video Output	CRT, LVDS (18 bit)
Backlight Inverter Supply	—
I/O	
Ethernet	Intel® 82576V, 10/100/1000Base-TX
Audio	—
USB Port	USB2.0 x 4
Serial Port	RS-232 x 3, RS-232/422/485 x 1
Parallel Port	—
HDD Interface	SATA x 1
FDD Interface	—
SSD	CompactFlash™
Expansion Slot	PCI-104, Mini-Card
PWM LCD Support	—
DIO	8 bit
TPM	—
Touch	—

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



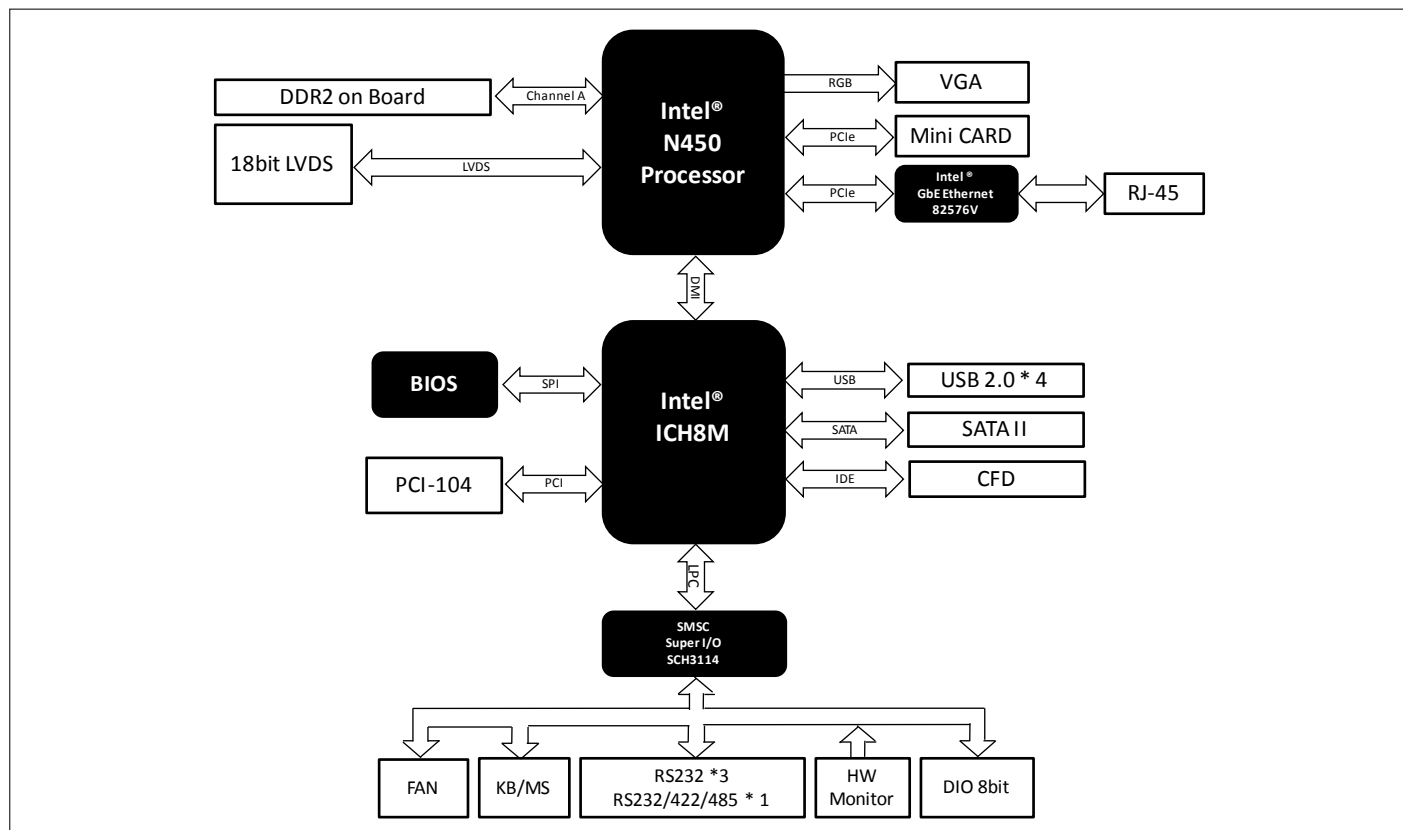
Packing List

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

Optional Accessories

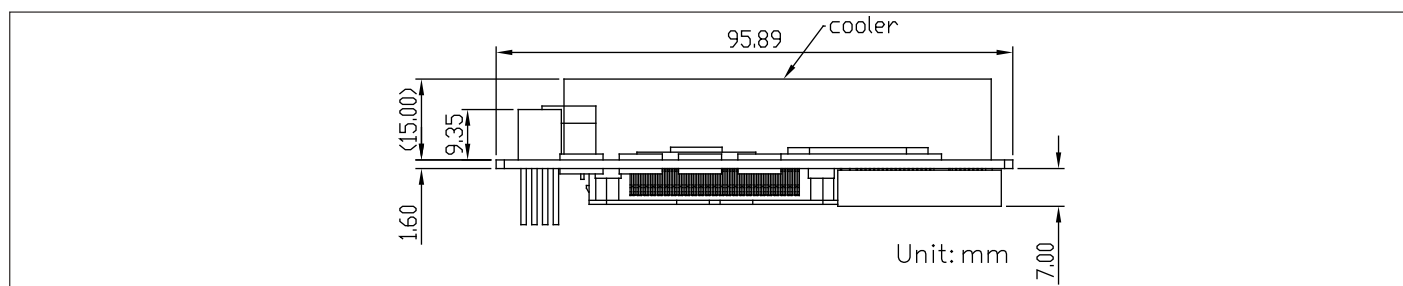
- 1701010150
Front Panel Cable
- 1700050207
USB Cable, Length 20cm
- 1702150121
SATA Power Cable, Length 12cm
- 1709070200
SATA Cable, Length 20cm
- 1701090150
COM Cable, Length 15cm
- 1700100201
LAN Cable, Length 20cm
- 1709150151
VGA Cable, Length 15cm
- 1702002010
Big 4P Power Input Cable, Length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

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	+12V/ 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	+12V/ AT/ATX	0°C ~ 60°C