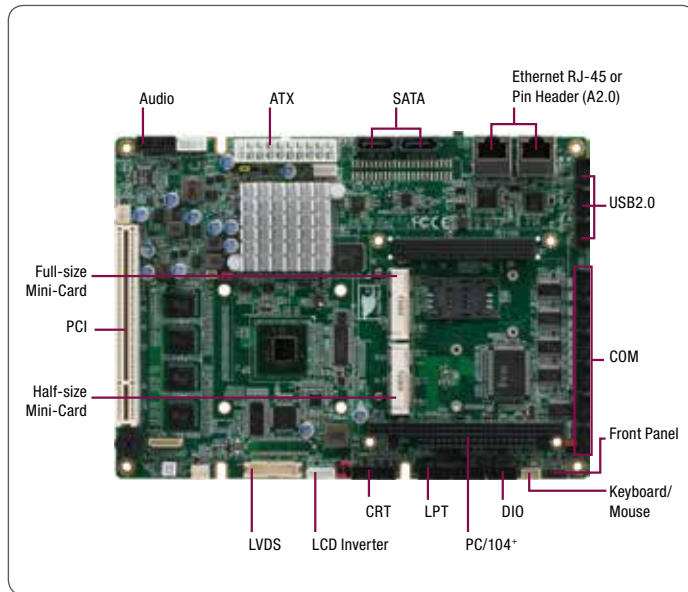


PCM-LN02

Compact Board with Onboard Intel® Atom™ N455/D525 Processor



Features

- Intel® Atom™ N455/D525 Processor
- Intel® ICH8M
- Onboard DDR3 667/800MHz, up to 2 GB
- 10/100/1000Base-TX Ethernet x 2, RJ-45 x 2
- Integrated Graphic Supports 18-bit or 24-bit LVDS Panel or TTL (Optional)
- Speaker Out With 2W Amplifier (Wafer Box)
- SATA 3.0 Gb/s x 2, CompactFlash™ x 1, EIDE x 1 (Optional)
- USB2.0 x 6, RS-232 x 5, RS-232/422/485 x 1
- PC/104+ (ISA+PCI), Mini-Card x 2 (1st: Full Size + SIM; 2nd: Half-size)
- +12V Only Operation With Optional ATX
- Optional TPM1.2

Specifications

System	
Form Factor	5.25"
Processor	Onboard Intel® Atom™ N455/D525
System Memory	Onboard DDR3 667/800 MHz, up to 2 GB
Chipset	ICH8M
I/O Chipset	ITE 8712F/KX-L + Fintek F81216AD
Ethernet	Intel® i82567V(PHY) + Intel® i82583V 10/100/1000Base-TX
BIOS	AMI 8 MB
Wake on LAN	Yes
Watchdog Timer	255 Levels
H/W Status Monitoring	Monitoring system temperature, voltage, and cooling fan status
Expansion Interface	PCI, PC/104+ (ISA + PCI), two Mini-Card (1st: full size+SIM; 2nd: half size)
Battery	Lithium Battery
Power Requirement	+12V or ATX
Power Consumption (Typical)	Intel® Atom™ D525 1.8 GHz, 0.1A@+5V, 1.56A@+12V
Board Size	8" x 5.75" (203 mm x 146 mm)
Gross Weight	1.2 lb (0.5 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)	60,000
Display	
Chipset	Intel® Atom™ processor integrated
Memory	Shared memory: 384 MB/DVMT 4.0
Resolutions	Up to 1366 x 768, 18bpp for Single LVDS channel supporting resolution; Up to 2048 x 1536 @ 60Hz for Analog CRT display output resolution
LCD Interface	18-bit LVDS or 24-bit LVDS, TTL (optional)
I/O	
Storage	CompactFlash™ x1, SATA 3.0 Gb/s x 2
Serial Port	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP
USB	USB2.0 x 6
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	Supports 8-bit (Programmable)



Packing List

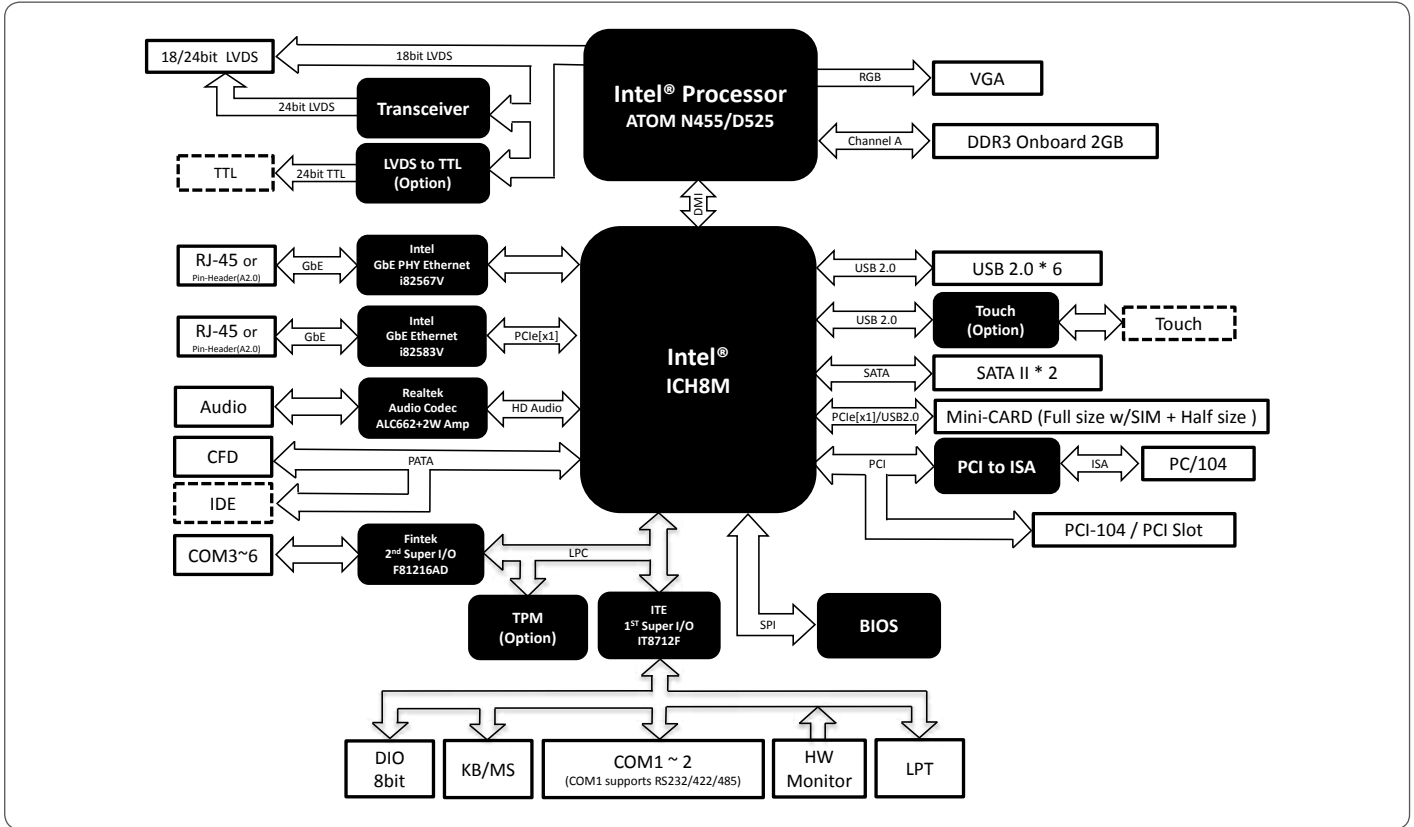
- 965766600
Jumper Cap
- 17592LN8T0
Cooler
- Product CD
- PCM-LN02

Optional Accessories

- 1709100208
USB Cable, Length 20cm
- 1700140510
Audio Cable, Length 51cm
- 1701100206
COM Port Cable, Length 20cm
- 1701260200
Parallel Port Cable, Length 20cm
- 1709070500
SATA Cable, Length 50cm
- 1700160201
VGA Cable, Length 20cm
- 1702151200
Onboard SATA Power Cable
- 1700100201
LAN Cable 20cm for A20

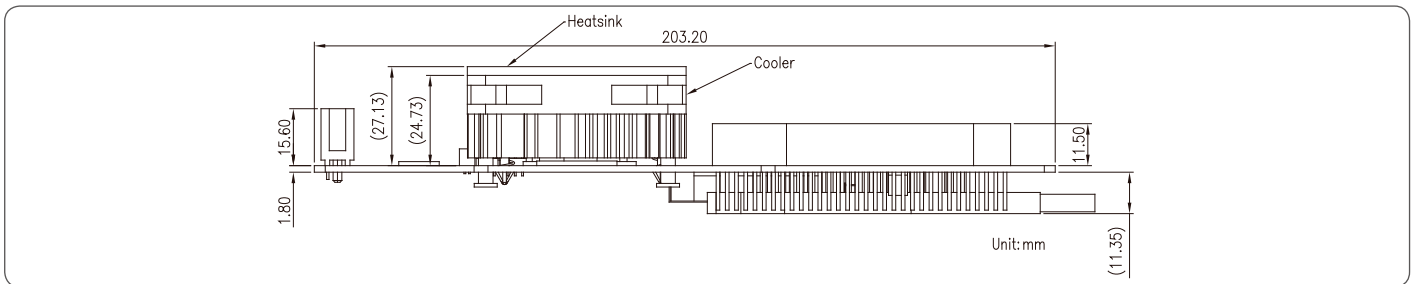
PCM-LN02

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
TF-PCM-LN02-A10-02	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	18b, 1CH	SATA x 2 CF x 1	GbE x 2	USB2.0 x 4	3	1	Mini-Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-03	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	18b, 1CH	SATA x 2 CF x 1	GbE x 2	USB2.0 x 4	3	1	Mini-Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-04	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2	USB2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A10-05	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2	USB2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A20-02	Intel® Atom™ D525	Onboard 2 GB DDR3	Fan	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2 Pin Header x 2	USB2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	ATX	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2
TF-PCM-LN02-A20-03	Intel® Atom™ N455	Onboard 2 GB DDR3	Fanless	CRT + LVDS	24b, 1CH	SATA x 2 CF x 1	GbE x 2 Pin Header x 2	USB2.0 x 6	5	1	Mini-Card x 1 Mini-Card x 1 (half size) PCI Slot x 1, PC/104+ x 1, SIM Card x 1	+12V (ATX)	0°C ~ 60°C	DIO 8-bit, 2W Amp. LPT, PS/2