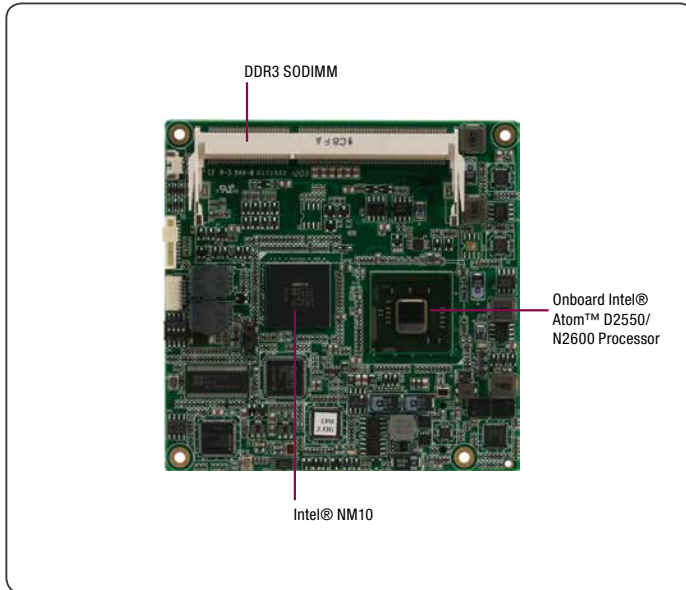


# 06 COM-CV Rev. B

COM Express CPU Modules

COM Express Type 6 CPU Module with Onboard Intel® Atom™ D2550/N2600 Processor



## Features

- Onboard Intel® Atom™ D2550/N2600 Processor
- Intel® NM10
- DDR3 1066 MHz SODIMM x 1, Up to 4 GB
- Intel® 82583V Gigabit Ethernet
- CRT, Up to 24-bit Dual-Channel LVDS LCD, DDI x 2
- SATA 3.0 Gb/s x 2, USB3.0 x 2, USB2.0 x 8
- PCI-Express[x1] x 4
- COM Express Compact Module, 95mm x 95mm, Pin-out Type 6, COM.0 Rev. 2.0
- -40°C ~ 85°C Wide Temperature Range Available for Selected Model

## Specifications

System	
Form Factor	COM Express, Compact, Pin-out Type 6
CPU	Onboard Intel® Atom™ D2550/N2600, Dual Core Processors up to 1.86 GHz
CPU Frequency	Up to 1.86 GHz
Chipset	Intel® NM10
Memory Type	DDR3 1066, SODIMM x 1
Max. Memory Capacity	Up to 4 GB
BIOS	AMI BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Nominal: +12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	Intel® D2550 1.86 GHz, DDR3 1066/4GB, 1.39A@+12V
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) (D2550/N2600) -40°F ~ 185°F (-40°C ~ 85°C)(N2600)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Atom™ D2550/N2600 Processor integrated
Video Output	CRT/ LVDS LCD/ DisplayPort™/ HDMI
I/O	
Ethernet	Intel® 82583V, Gigabit Ethernet
Audio	High Definition Audio Interface
USB Port	USB2.0 x 8, USB3.0 x 2
Serial Port	Tx/Rx x 2
Parallel Port	—
HDD Interface	SATA 2 x 2
FDD Interface	—
SSD	—
Expansion Slot	PCI-Express [x1] x 4 LPC Bus x 1 SM Bus x 1
DIO	GPIO 8-bit
TPM	Optional



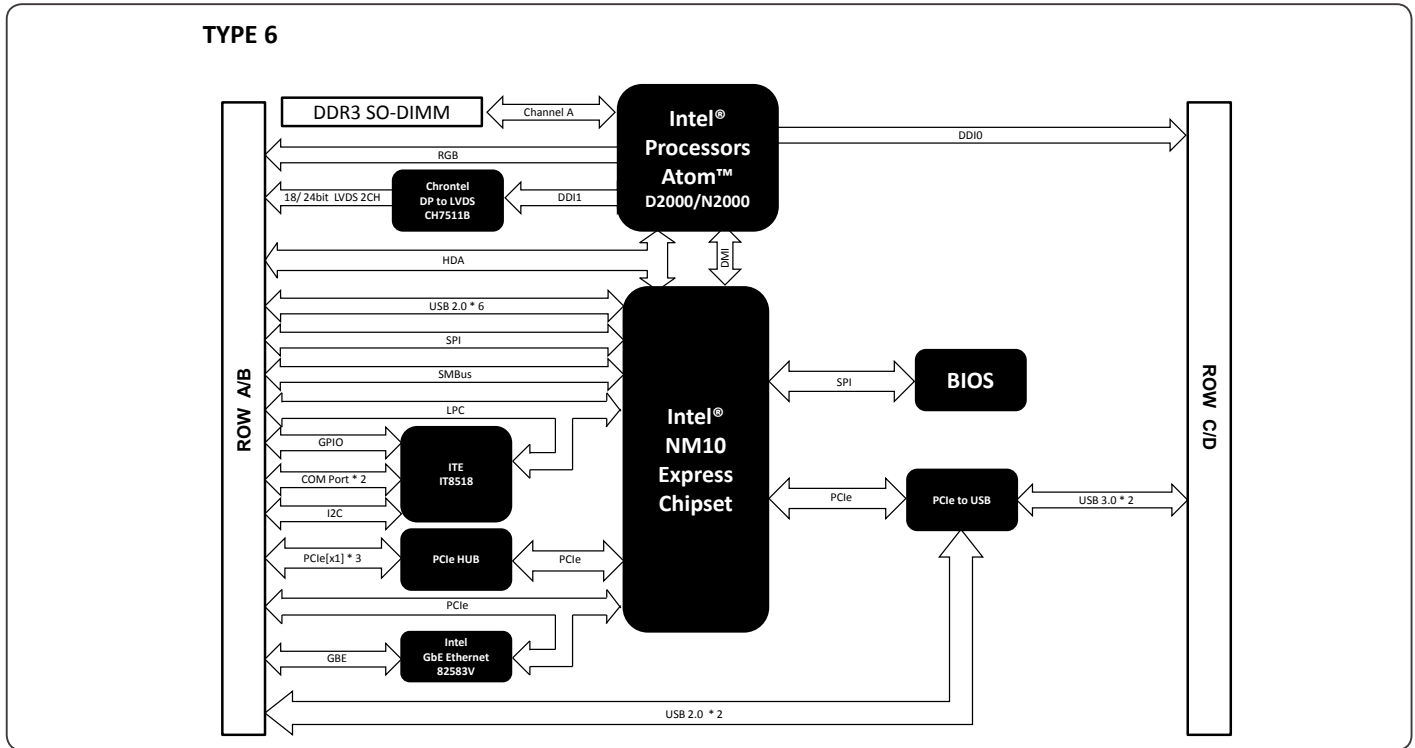
## Packing List

- M2.5 Screw x 4
- Product CD
- COM-CV Rev. B

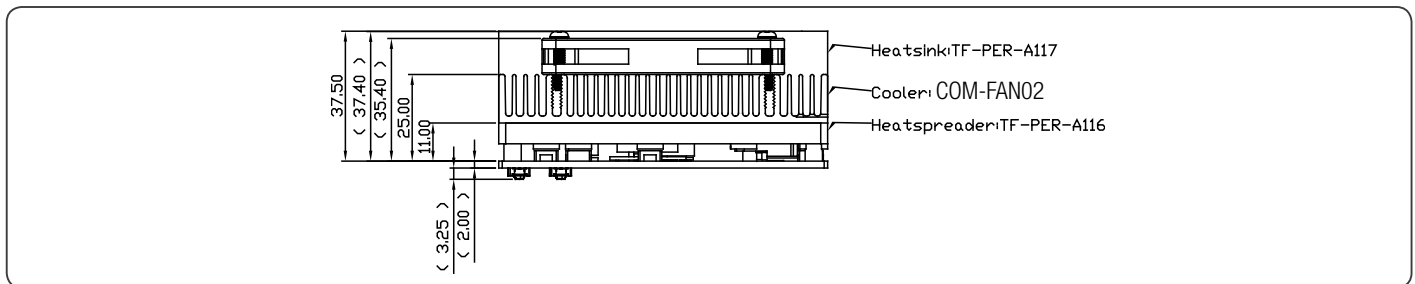
## Optional Accessories

- **TF-ECB-920-A10-0001**  
COMe Type 1/6/10 Carrier Board, ATX, GbE, 8 USB, 2 COM, 4 SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0
- **TF-PER-A116**  
Heat Spreader, For COM-CV
- **TF-PER-A117**  
Passive Heatsink, to be used with Heat Spreader
- **COM-FAN02**  
CPU Cooler, 95 x 95 x 26.5mm, Sliver, use with HSP

## Block Diagram Unit: mm



## Dimension Unit: mm



## Ordering Information

Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Temp
COM-CV-B10-02	6 (COM.0 Rev.2.0)	Intel® Atom™ D2550, B3/1.86 GHz	DDR3 SODIMM x1 up to 4 GB	CRT, LVDS, HDMI, DP	24b, 2CH	SATA2 x 2	GbE x 1	USB3.0 x 2 USB2.0 x 8	2 (Tx/Rx)	PCI-E [x1] x 4	12V	0°C ~ 60°C
COM-CV-B10-03	6 (COM.0 Rev.2.0)	Intel® Atom™ N2600, B3/1.6 GHz	DDR3 SODIMM x1 2 GB	CRT, LVDS, HDMI, DP	24b, 2CH	SATA2 x 2	GbE x 1	USB3.0 x 2 USB2.0 x 8	2 (Tx/Rx)	PCI-E [x1] x 4	12V	0°C ~ 60°C
COM-CVW2-B10-01	6 (COM.0 Rev.2.0)	Intel® Atom™ N2600, B3/1.6 GHz	DDR3 SODIMM x1 2 GB	CRT, LVDS, HDMI, DP	24b, 2CH	SATA2 x 2	GbE x 1	USB3.0 x 2 USB2.0 x 8	2 (Tx/Rx)	PCI-E [x1] x 4	12V	WITAS 2 (-40°C ~ 85°C)

Note:  
Intel® Atom™ Processor D2000 series and N2000 series (CV) do NOT support DMA function that may affect ECP mode of Parallel port.