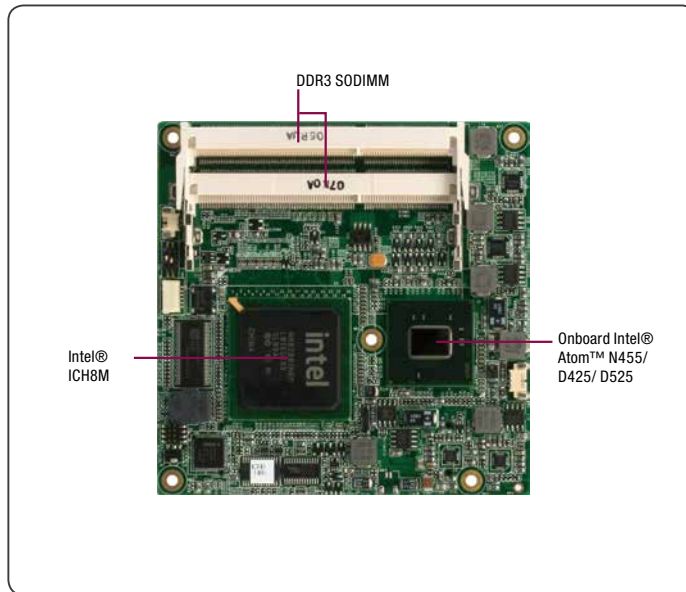


# 06 COM-LN Rev. B

COM Express CPU Modules

## COM Express Type 2 CPU Module with Onboard Intel® Atom™ D525 Processor



### Features

- Onboard Intel® Atom™ D525 Processor
- Intel® ICH8M
- DDR3 800 MHz SODIMM x 2, Up to 4 GB
- Intel® 82567V Gigabit Ethernet
- CRT, 18-bit Single Channel LVDS LCD
- High Definition Audio Interface
- PATA x 1, SATA 3.0 Gb/s x 3
- USB2.0 x 8
- PCI x 4, PCI-Express [x1] x 5 (x 6: Optional)
- Wide DC Input Range, +8.5V to +19V (Optional)
- COM Express Pin-out Type 2
- Compact Module Size, 95mm x 95mm, COM.0 Rev. 2.0

### Specifications

System	
Form Factor	COM Express, Compact Module, Pin-out Type 2
CPU	Onboard Intel® Atom™ D525
CPU Frequency	Up to 1.8 GHz
Chipset	Intel® ICH8M
Memory Type	DDR3 667/800, SODIMM x 2
Max. Memory Capacity	4 GB
BIOS	AMI BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+8.5V ~ +19V (Optional) Nominal: +12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	Intel® Atom™ D525 1.8 GHz, DDR3 800 1GB, 1.24A@+12V
Dimension (L x W)	3.74" x 3.74" (95mm x 95mm)
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)	90,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Atom™ D525 Processor Integrated
Video Output	CRT/ LVDS LCD
Backlight inverter supply	—
I/O	
Ethernet	Intel® 82567V, Gigabit Ethernet
Audio	High Definition Audio Interface
USB Port	USB2.0 x 8
Serial Port	From LPC interface
Parallel Port	From LPC interface
HDD Interface	PATA x 1 (Two devices) SATA 2 x 3
FDD Interface	From LPC interface
SSD	—
Expansion Slot	PCI-Express [x1] x 5 (x 6: Optional) 32-bit PCI x 4 LPC Bus x 1 SM Bus x 1 I2C x 1
DIO	GPIO 8-bit
TPM	Optional



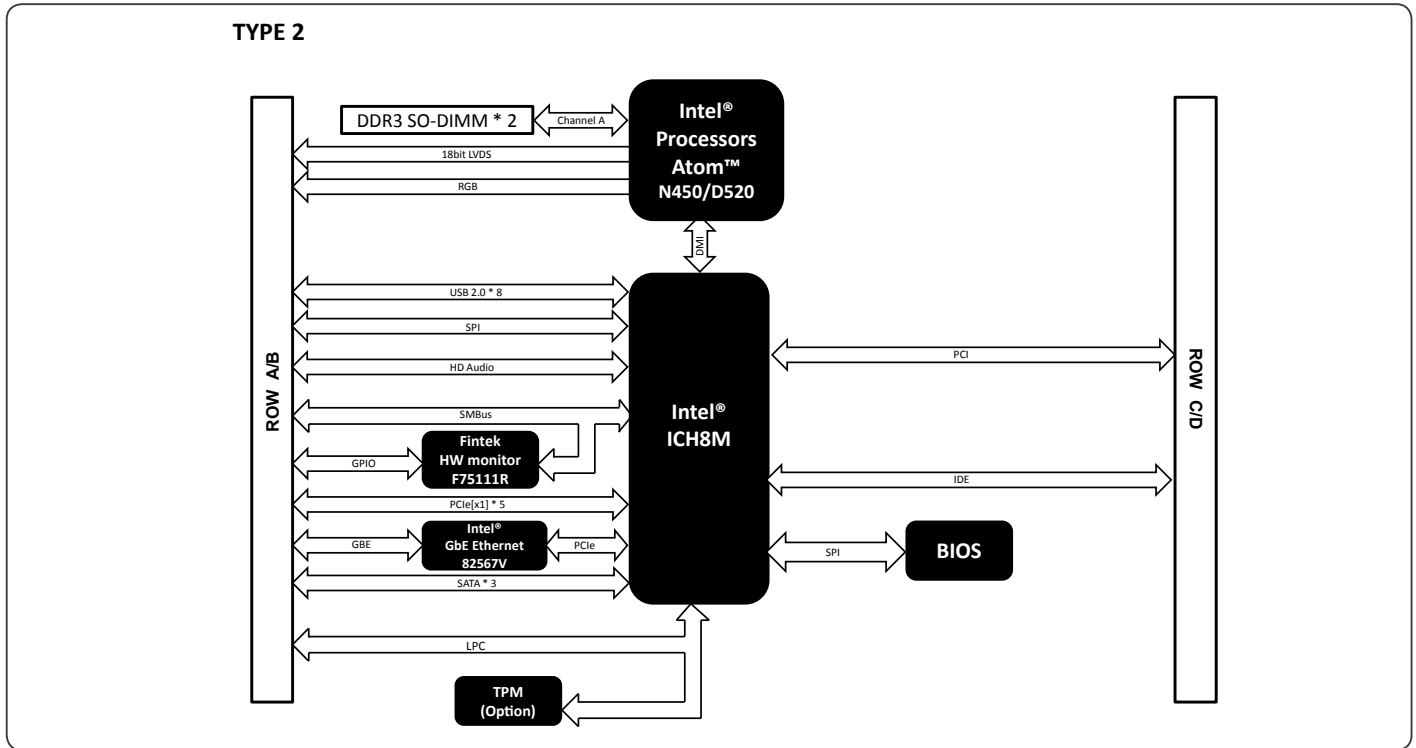
### Packing List

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

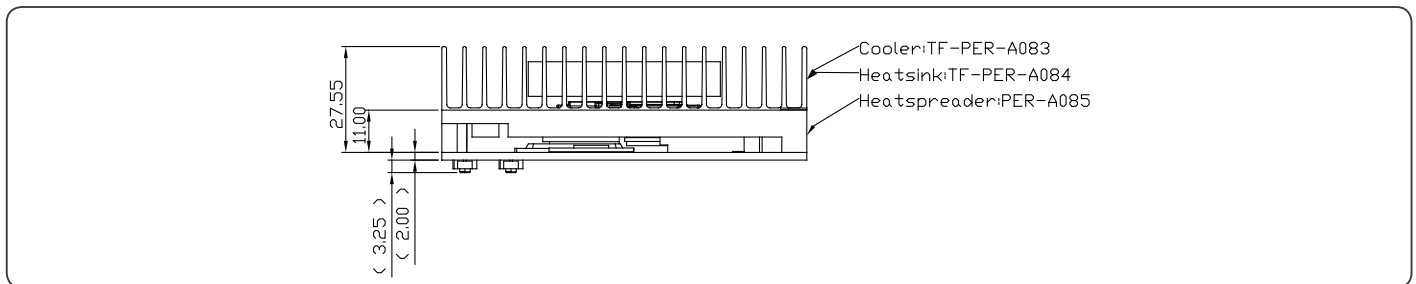
### Optional Accessories

- **TF-ECB-916M-B11-01**  
COM Express Carrier Board, microATX, Dual Ethernet, 2 COM (Winbond), USB, PCI-Express, AT/ATX, Rev. B1.1
- **TF-PER-A083**  
CPU Cooler, For COM-LN, Onboard CPU, 12V Fan
- **TF-PER-A084**  
Passive Heatsink, For COM-LN, Onboard CPU
- **TF-PER-A085**  
Heat Spreader Kit, For COM-LN, Onboard CPU

## 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
TF-COM-LN-B10-02	2 (COM.0 Rev.2.0)	Intel® Atom™ D525/1.8 GHz	DDR3 SODIMM x 2 up to 4 GB	CRT, LVDS	18b, 1CH	SATA2 x 3 PATA x 1	GbE x 1	USB2.0 x 8	—	PCI-E [1] x 5 32-bit PCI x 4	12V	0°C - 60°C