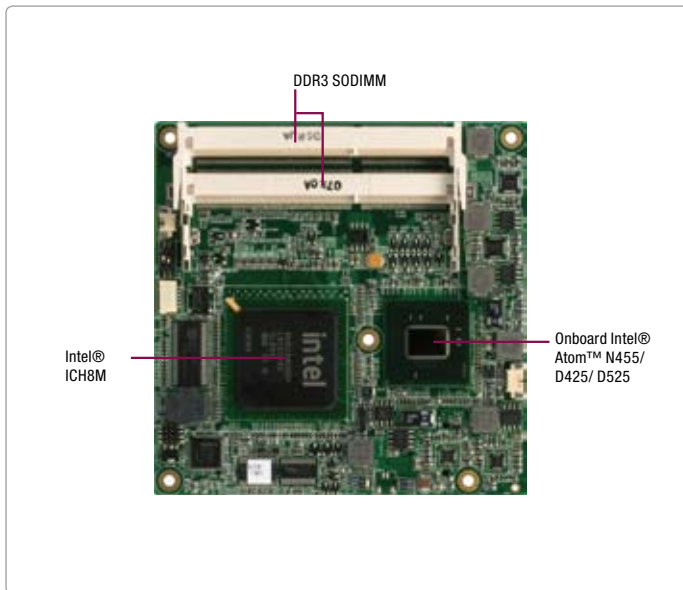


# COM-LN Rev. B

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

06

COM Express CPU Modules



## Features

- Onboard Intel® Atom™ D525 Processor
- Intel® ICH8M
- SODIMM DDR3 667/800 Memory, Max. 4GB
- Intel® 82567V Gigabit Ethernet
- CRT, 18-bit Single Channel LVDS LCD
- High Definition Audio Interface
- PATA x 1, SATA 3.0Gb/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, COM. 0 Rev. 2.0
Processor	Onboard Intel® Atom™ D525 processor, 1.8GHz, FSB 800MHz
System Memory	204-pin DDR3 SODIMM x 2 Max. 4GB
I/O Chipset	Intel® ICH8M
Ethernet	Intel® 82567V, Gigabit Ethernet
TPM	—
BIOS	AMI BIOS SPI type, 4MB ROM
EEPROM	Atmel® AT24C02, save BIOS and Configuration data (Optional)
Wake on LAN	Yes
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x1] x 5 (x 6: Optional, GbE on the module: Disabled) 32-bit PCI x 4 LPC bus x 1 SMBus x 1
Power Requirement	Wide DC input range, +8.5V to +19V (Optional) Nominal: +12V 2-pin wafer for RTC battery
Power Consumption (Typical)	Intel® Atom™ D525 1.8GHz, DDR3 1 GB 1.24A@ +12V 0.33A@ECB-916M
Board Size	3.74" (L) x 3.74" (W) (95mm x 95mm)
Gross Weight	0.55 lb (0.25 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)	90,000
Display	
Chipset	Intel® D525 integrated Integrates hardware MPEG2 decoder
Memory	Shared system memory up to 384MB/ DVMT 4.0
Resolutions	Up to 2048 x 1536 (QXGA)@60Hz for CRT Up to 1366 x 768 or 1280 x 800 (WXGA) for LCD
LCD Interface	18-bit Single Channel LVDS
I/O	
Storage	PATA x 1 (Two devices) SATA 3.0Gb/s x 3
USB	USB2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out



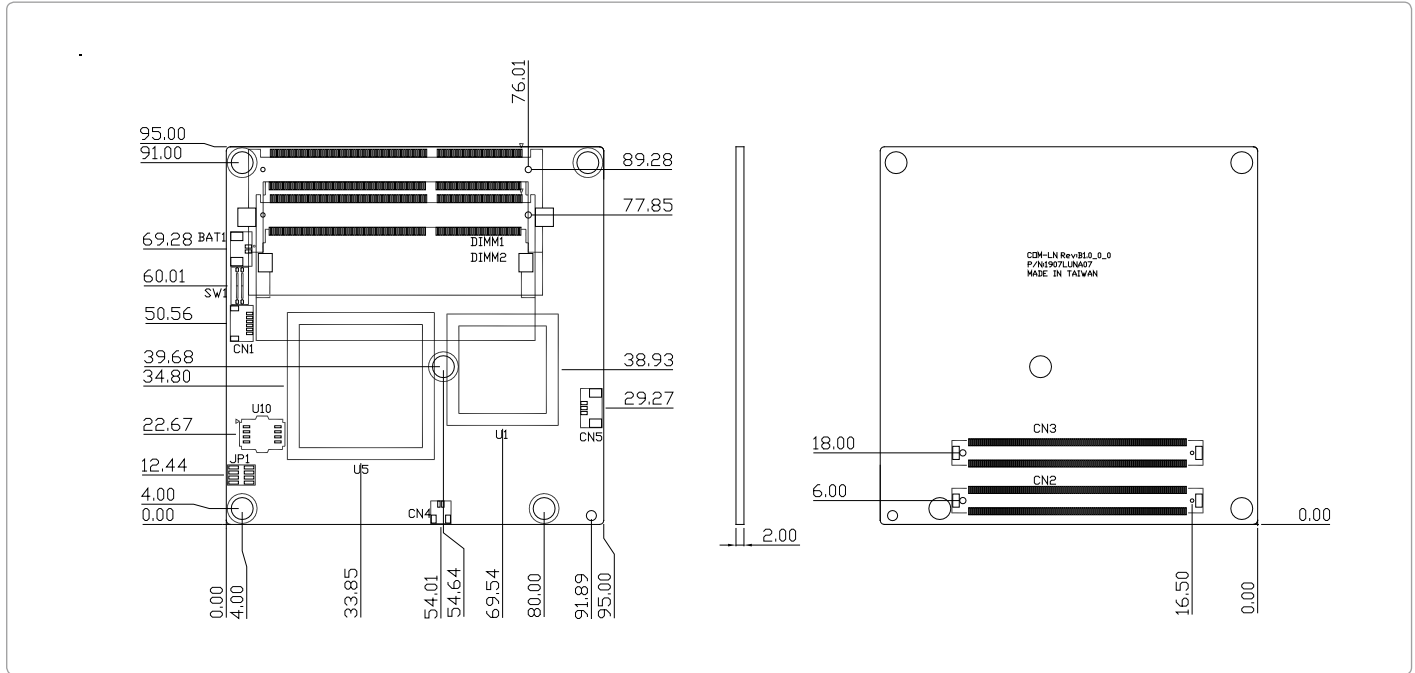
## Packing List

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

# COM-LN Rev. B

## 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™ D525/1.8G	DDR3 SODIMM x 2 Max.4GB	CRT, LVDS	18-bit Single Channel	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

## Optional Accessories

- TF-ECB-916M-B11**  
 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