



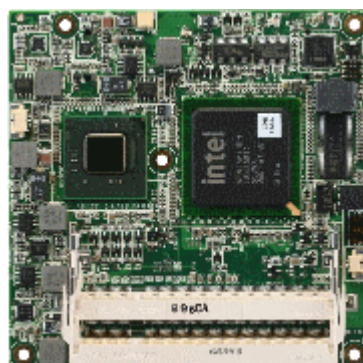
Computing Platform Service Partner

[About AAEON](#)[News & Events](#)[Products](#)[Solutions & Partners](#)[Computer On Module Service](#)[Embedded PC](#)[Medical Solution](#)[Turn-key Solution](#)

Products

[Home](#) » [Products](#) » [Embedded Single Board Computers](#) » [Computer On Module-COM](#) »

COM-LN [Inquiry](#)



COM Express CPU Module With Onb Atom™ N450/ D410/ D510 Processor

Main Feature

- Onboard Intel Atom N450/ D410/ D510 Proc
- Intel ICH8M
- SODIMM DDR2 533/667/800 Memory, Max.
- Gigabit Ethernet
- CRT, 18-bit Single-channel LVDS LCD
- High Definition Audio Interface
- PATA x 1, SATA II 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 (Optic)
- COM Express Pin-out Type II
- Compact Module Size, 95mm x 95mm

- [Large Image](#)
- [Datasheet](#) (update:June 28, 2010)
- [Manual](#) (update:June 24, 2010)
- [Driver](#)
- [BIOS](#)

[Specifications](#)[Ordering Information](#)

Specifications

System

- **Form Factor**
COM Express compact module, Pin-out Type II
- **Processor**
Onboard Intel® Atom™ N450/ D410/ D510 processor, 1.66 GHz
- **System Memory**
200-pin DDR2 SODIMM x 2
TF-COM-LN-A10: Max. 2 GB (DDR2 533/667)
TF-COM-LN-A10-01/-02: Max. 4 GB (DDR2 667/800)
- **I/O Chipset**
ICH8M
- **Ethernet**
Intel® 82567V, 10/100/1000Base-TX
- **BIOS**
AMI BIOS

SPI type, 2 MB 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

I2C 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 D510 1.66 GHz, DDR2 667 2GB

1.08A @ +12V

0.74A @ +5V

w/ 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: Supports CRT/LCD simultaneous/ dual view displays

- **Chipset**

Intel® N450/ D410/ D510 integrated

Integrates hardware MPEG2 decoder

- **Memory**

Shared system memory up to 384 MB/ DVMT 4.0

- **Resolutions**

Up to 2048 x 1536 (QXGA) @ 60 Hz for CRT (D410/D510)

Up to 1400 x 1050 (SXGA) @ 60 Hz for CRT (N450)

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 II x 3
- **USB**
USB 2.0 x 8
- **Audio**
High definition audio
- **GPIO**
Up to 4 in or 4 out

[SITEMAP](#) | [Legal](#) | © 2010 AAEON Technology Inc. All Rights Reserved

AAEON Technology, established in 1992, manufactures and markets a wide range of OEM/ODM Industrial Computer System, Embedded Computer System, BOX PC, Rugged Tablet Computer, Mobile PC, PC104, ETX, Medical PC and Computer on Module etc. all over the world. Our commitment to our customers is to provide reliable and high quality Embedded Motherboard, Panel PC, Medical PC, Industrial LCD Display, Computer on Module and related accessories. AAEON has branches worldwide including America, Netherlands, China and Singapore.