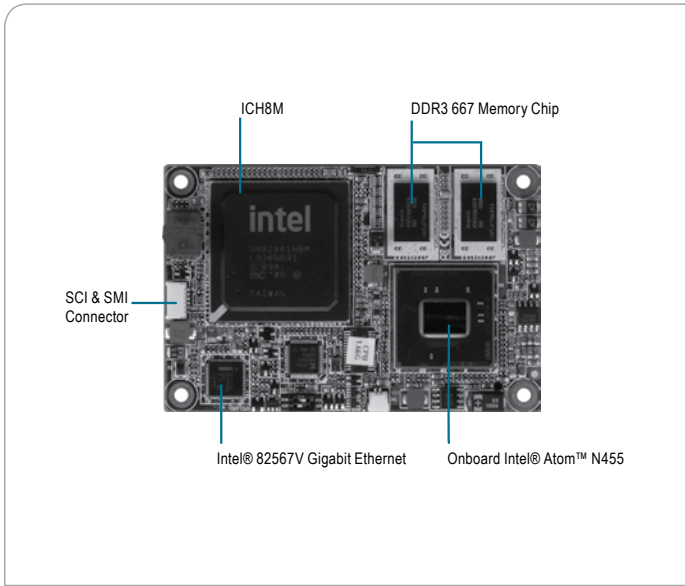


# NanoCOM-LN

COM Express CPU Module with Onboard Intel® Atom™ N455 Processor

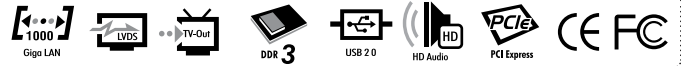
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COM Express CPU Modules



## Features

- Onboard Intel® Atom™ N455 Processor
- Intel® ICH8M
- Onboard DDR3 667 Memory Chip, Max. 1 GB
- Gigabit Ethernet
- CRT, 18-bit Single-channel LVDS LCD
- High Definition Audio Interface
- PATA SSD (Up to 4GB) x 1, SATA 3.0Gb/s x 3
- USB2.0 x 8
- PCI-Express [x1] x 5
- Wide DC Input Range, +4.75V to +14.7V (Optional)
- COM Express Pin-out Type 1
- Nano Module Size, 84mm x 55mm, COM.0 Rev. 1.0/ 2.0



## Specifications

System	
Form Factor	COM Express Nano Module, Pin-out Type 1, COM.0 Rev. 1.0/ 2.0
Processor	Onboard Intel® Atom N455 Processor, 1.8GHz
System Memory	Onboard DDR3 667 memory chip, Max. 1 GB
Chipset	Intel® ICH8M
I/O Chipset	ICH8M
Ethernet	Intel® 82567V, 10/100/1000 Base-TX
TPM	—
BIOS	AMI BIOS SPI type, 2MB 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 32-bit PCI x 4 LPC bus x 1 SMBus x 1 I2C x 1
Power Requirement	Wide DC input range, +4.75V to +14.7V (Optional) Nominal: +12V
Power Consumption (Typical)	TBC
Board Size	3.31"(L) x 2.17"(W) (84mm x 55mm)
Gross Weight	0.44 lb (0.2 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)	TBC
Display	
Supports CRT/LCD simultaneous/ dual view displays	
Chipset	Intel® N455 integrated Integrates hardware MPEG2 decoder
Memory	Shared system memory up to 384MB/ DVMT 4.0
Resolution	Up to 1400 x 1050 (SXGA) @ 60Hz 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	1. PATA SSD on board (Master device), Max. 4GB 2. SATA 3.0Gb/s x 3
Serial Port	—
Parallel Port	—
USB	USB 2.0 x 8
PS/2 Port	—
Digital I/O	—
IrDA	—
Audio	High definition audio
GPIO	Up to 4 in and 4 out

## Packing list

- M2.5 Screw x 4
- Product CD
- NanoCOM-LN

## Ordering Information

- **TF-NanoCOM-LN-A10**  
COM Express, N455, DDR3 1GB, Gigabit Ethernet, 4GB SSD, SATA, USB2.0, Rev.A1.0
- **TF-NanoCOM-LN-A10-01**  
COM Express, N455, DDR3 1GB, Gigabit Ethernet, SATA, USB2.0, Rev.A1.0

## Optional Accessories

- **TF-ECB-916M-A21**  
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 2COM (Winbond), USB, PCI-Express, AT/ATX, Rev.A2.1
- **TF-PER-A104**  
CPU Cooler, For NanoCOM-LN, On-board CPU, 12V Fan
- **TF-PER-A105**  
Passive Heat-sink, For NanoCOM-LN, On-board CPU
- **TF-PER-A106**  
Heat Spreader Kit, For NanoCOM-LN, On-board CPU