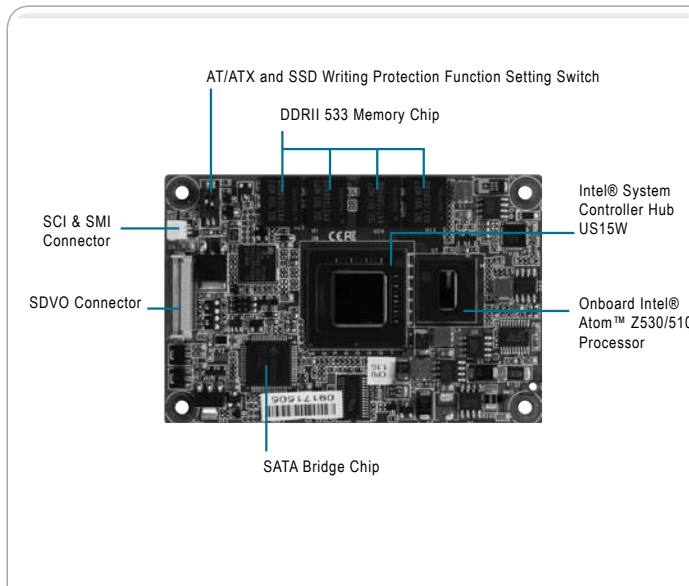


# NanoCOM-U15 A2.0

COM Express CPU Module With Onboard Intel® Atom™ Z530/Z510 Processor



## Features

- Onboard Intel® Atom™ Z530/Z510 Processor
- Intel® System Controller Hub US15W
- Onboard DDRII 533 Memory Chip, Max. 1 GB
- Gigabit Ethernet
- Up To 24-bit LVDS LCD, SDVO Connector x 1
- High Definition Audio Interface
- PATA SSD (Up To 4 GB) x 1, SATA II x 1
- USB2.0 x 8
- PCI-Express [x1] x 1 (x 2: Optional)
- Wide DC Input Range, +4.75V To +14.7V (Optional)
- COM Express Pin-out Type I
- Nano Module Size, 84mm x 55mm



## Specifications

System	
Form Factor	COM Express nano module, Pin-out Type I
Processor	Onboard Intel® Atom™ Z530/Z510 processor Z530: 1.6 GHz/FSB 533 MHz Z510: 1.1 GHz/FSB 400 MHz
System Memory	Onboard DDRII 533 memory chip, Max. 1 GB
Chipset	Intel® System Controller Hub US15W
I/O Chipset	Intel® System Controller Hub US15W
Ethernet	Intel® 82574L, 10/100/1000Base-TX
BIOS	Award BIOS v8.0 TSOP type, 1 MB ROM With legacy-free BIOS (Default)
EEPROM	Atmel® AT24C02, save BIOS and configuration data (Optional)
Wake on LAN	—
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring (Optional)
Expansion Interface	4-bit SDIO: Multiplexed with GPIO pins PCI-Express [x1] x 1 (x 2: Optional) LPC bus x 1 SMBus x 1
Power Requirement	Wide DC input range, +4.75V to +14.7V (Optional) Nominal: +12V
Power Consumption (Typical)	—
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)	95,000
Display	Supports LCD/DVI or LCD/LCD (via SDVO) simultaneous/ dual view displays
Chipset	Intel® System Controller Hub US15W integrated
Memory	Shared system memory up to 256 MB
Resolutions	Up to 1366 x 768 @ 85 Hz (Max. pixel clock of 112 MHz) for LVDS Up to 1280 x 1024 @ 85 Hz (Max. Pixel clock of 160 MHz) for SDVO
LCD Interface	Up to 24-bit single-channel LVDS
SDVO	SDVO connector x 1
I/O	
Storage	1. PATA SSD on board (Master device), Max. 4 GB 2. SATA II x 1
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out: Multiplexed with 4-bit SDIO

## Packing list

- M2.5 Screw x 4
- Utility CD
- NanoCOM-U15 A2.0

## Ordering Information

- **TF-NanoCOM-U15-A20**  
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z510, Intel System Controller Hub US15W, DDRII 1GB, Gigabit Ethernet, SATA, USB2.0, Rev. A2.0
- **TF-NanoCOM-U15-A20-01**  
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z510, Intel System Controller Hub US15W, DDRII 1GB, Gigabit Ethernet, 4GB SSD, USB2.0, Rev. A2.0
- **TF-NanoCOM-U15-A20-02**  
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z530, Intel System Controller Hub US15W, DDRII 1GB, Gigabit Ethernet, SATA, USB2.0, Rev. A2.0
- **TF-NanoCOM-U15-A20-03**  
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z530, Intel System Controller Hub US15W, DDRII 1GB, Gigabit Ethernet, 4GB SSD, USB2.0, Rev. A2.0

## Optional Accessories

- **TF-ECB-951D-A10-01**  
COM Express Carrier Board, Gigabit Ethernet, 2CH Audio, 2COM, USB2.0, CompactFlash™, SD, PCI-Express, DC, 1 COM Express Connector, Rev.A1.0
- **TF-PER-A093**  
Passive Heatsink, For NanoCOM-U15 A2.0, Onboard CPU
- **TF-PER-A094**  
Heat Spreader Kit, For NanoCOM-U15 A2.0, Onboard CPU
- **14S62U150C**  
8Mb PLCC BIOS Chip with Standard (Legacy) BIOS for COM-U15 A2.0/NanoCOM-U15 A2.0 + ECB-951D