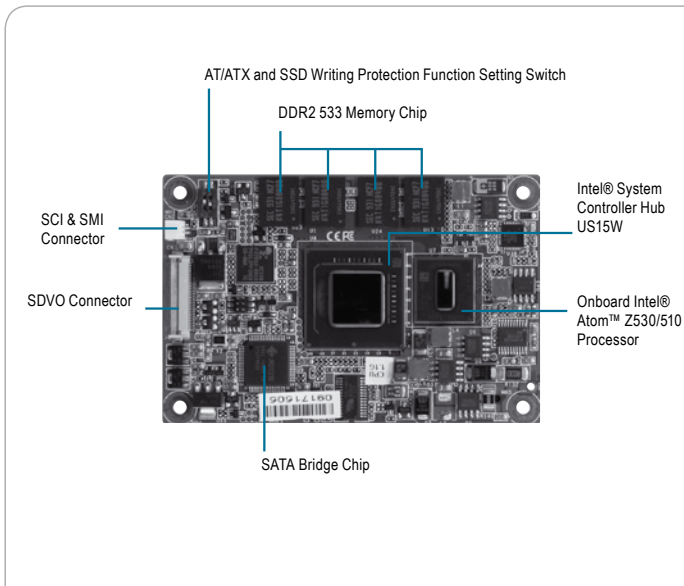


NanoCOM-U15W1

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



Features

- Onboard Intel® Atom™ Z530/Z510 Processors
- Intel® System Controller Hub US15W
- Onboard DDR2 533 Memory Chip, Max. 1GB
- Gigabit Ethernet
- Up to 24-bit LVDS LCD, SDVO Connector x 1
- High Definition Audio Interface
- PATA SSD (Up to 4GB) x 1/ SATA 3.0Gb/s x 1
- USB2.0 x 8
- PCI-Express [x1] x 1
- DC Input, +12V
- COM Express Pin-out Type 1, COM.0 Rev. 1.0, Nano Module Size, 84mm x 55mm
- Operating Temperature: -20°C ~ 70°C



Specifications

| System | |
|-----------------------------|---|
| Form Factor | COM Express Nano Module, Pin-out Type 1 COM.0 Rev. 1.0 |
| Processor | Onboard Intel® Atom™ Z530/Z510 processors Z530: 1.6 GHz/FSB 533 MHz Z510: 1.1 GHz/FSB 400 MHz |
| System Memory | Onboard DDR2 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 LPC bus x 1 SMBus x 1 |
| Power Requirement | DC input, +12V 2-pin wafer for RTC battery |
| 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 | -4°F ~ 158°F (-20°C ~ 70°C) |
| Storage Temperature | -40°F ~ 176°F (-40°C ~ 80°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| MTBF (Hours) | — |
| 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. 4GB 2. SATA 3.0Gb/s x 1 |
| USB | USB2.0 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
- Product CD
- NanoCOM-U15W1

Ordering Information

- **TF-NanoCOM-U15W1-A20-01**
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z510, Intel® System Controller Hub US15W, DDR2 1GB, Gigabit Ethernet, 4GB SSD, SATA, USB2.0, Rev. A2.0, WITAS 1
- **TF-NanoCOM-U15W1-A20-03**
NanoCOM Express CPU Module, Onboard Intel® Atom™ Z530, Intel® System Controller Hub US15W, DDR2 1GB, Gigabit Ethernet, 4GB SSD, SATA, USB2.0, Rev. A2.0, WITAS 1

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 Heat-sink, For NanoCOM-U15W1 Rev. A2.0, Onboard CPU
- **TF-PER-A094**
Heat Spreader Kit, For NanoCOM-U15W1 Rev. A2.0, Onboard CPU
- **14S62U150C**
8Mb PLCC BIOS Chip with Standard (Legacy) BIOS for COM-U15/ NanoCOM-U15+ ECB-951D