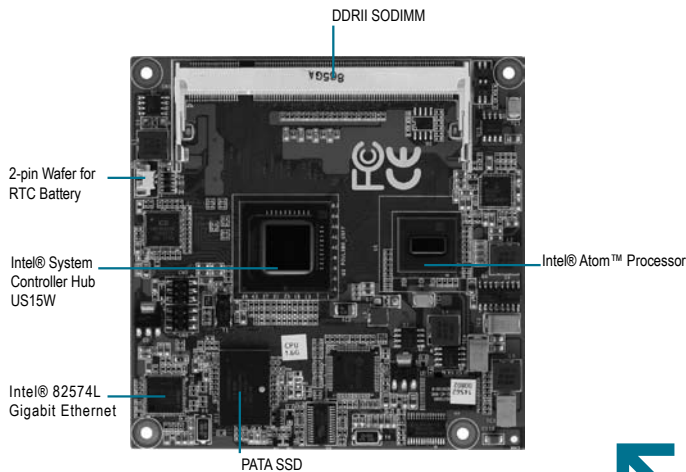


COM-U15

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



Features

- Onboard Intel® Atom™ Z530/Z510 Processor
- Intel® System Controller Hub US15W
- DDRII 400/533 Memory, Max. 2GB
- Gigabit Ethernet
- Up to 24-bit LVDS LCD, SDVO
- High Definition Audio Interface
- PATA SSD (Up to 4GB) x 1, SATA II x 1 or PATA x 1
- USB2.0 x 8
- PCI-Express [x1] x 1
- Wide DC Input Range, +8.5V to +19V
- COM Express Pin-out Type II
- Compact Module Size, 95mm x 95mm



Specifications

| System | |
|-----------------------------|---|
| Form Factor | COM Express compact module, Pin-out Type II |
| Processor | Onboard Intel® Atom™ Z530/Z510 processor Z530: 1.6GHz/FSB 533MHz Z510: 1.1GHz/FSB 400MHz |
| System Memory | 200-pin DDRII SODIMM x 1, Max. 2GB (DDRII 400/533) |
| Chipset | Intel® System Controller Hub US15W |
| I/O Chipset | Intel® System Controller Hub US15W |
| Ethernet | Intel® 82574L, 10/100/1000Base-TX |
| TPM | N/A |
| BIOS | Award BIOS v8.0 TSOP type, 1MB ROM With legacy-free BIOS (Default) |
| EEPROM | Atmel® AT24C02, save BIOS and configuration data (Optional) |
| Wake on LAN | N/A |
| 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 | Wide DC input range, +8.5V to +19V 2-pin wafer for RTC battery |
| Power Consumption (Typical) | Intel® Atom™ Z530 1.6GHz, DDR II 667 2GB 0.5A@+12V 0.185A@+5V |
| Board Size | 3.75"(L) x 3.75"(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 LCD/DVI or LCD/LCD (via SDVO) simultaneous/ dual view displays |
| Chipset | Intel® System Controller Hub US15W integrated |
| Memory | Shared system memory up to 256MB |
| Resolutions | Up to 1366 x 768 @ 85Hz (Max. pixel clock of 112 MHz) for LVDS Up to 1280 x 1024 @ 85Hz (Max. pixel clock of 160 MHz) for SDVO |
| LCD Interface | Up to 24-bit single-channel LVDS |
| SDVO | Supports SDVO x 1 |
| I/O | |
| Storage | 1. PATA SSD on board (Master device), Max. 4GB 2. PATA x 1 (One device) or 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
- COM-U15

Ordering Information

- **TF-COM-U15-A10**
COM Express CPU Module, Onboard Intel® Atom™ Z510, Intel® System Controller Hub US15W, DDRII SODIMM, Gigabit Ethernet, SATA, USB2.0, Rev. A1.0
- **TF-COM-U15-A10-01**
COM Express CPU Module, Onboard Intel® Atom™ Z530, Intel® System Controller Hub US15W, DDRII SODIMM, Gigabit Ethernet, SATA, USB2.0, Rev. A1.0

Optional Accessories

- **TF-ECB-951D-A10**
COM Express Carrier Board, Gigabit Ethernet, 2CH Audio, 2COM, USB2.0, CompactFlash™, SD, PCI-Express, DC, 2 COM Express Connectors, Rev. A1.0
- **TF-PER-A057**
Heat Spreader Kit, For COM-U15, Onboard CPU
- **TF-PER-A062**
Passive Heat-sink, For COM-U15, Onboard CPU
- **14S62U1500**
8Mb PLCC BIOS Chip with Standard (Legacy) BIOS for COM-U15/ NanoCOM-U15 + ECB-951D