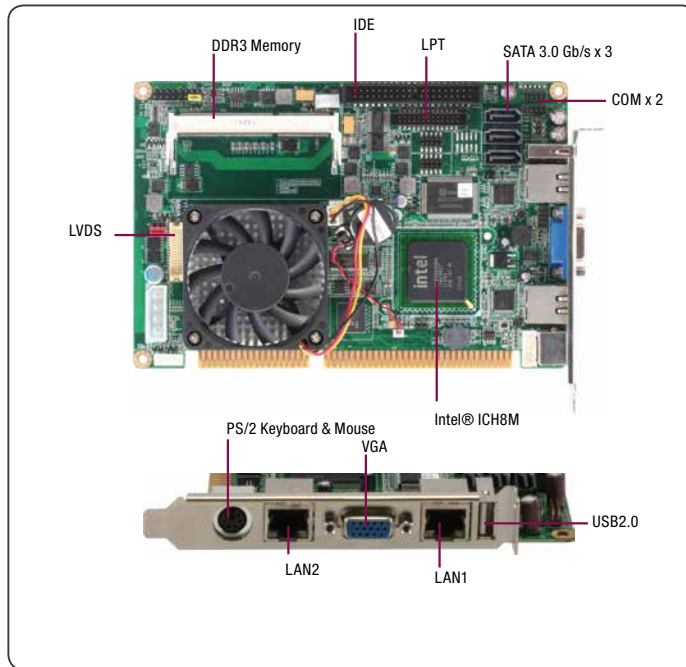


ISA Half-Size SBC with Intel® Atom™ D525/N455 Processor



Features

- Intel® Atom™ D525/N455 Processor
- Intel® ICH8M
- 204-pin DDR3 800 MHz SODIMM x 2, Up to 4 GB (D525), Up to 2 GB (N455)
- Gigabit Ethernet x 2
- Intel® Atom™ D525/N455 Integrated VGA, Shared Memory Up To 324 MB with DVMT4.0
- Optional HD Codec Audio Daughter Board
- SATA 3.0 Gb/s x 3, CompactFlash™ Type 2, ATA100 x 1
- USB2.0 x 5, RS-232/422/485 x 1, RS-232 x 1
- ISA Expansion
- +5V, +12V Operation, AT Power



Specifications

| System | |
|-----------------------------|--|
| Form Factor | Half-size CPU Card |
| Bus Interface | ISA |
| CPU | Intel® Atom™ D525/N455 |
| Memory Type | Up to 4 GB (DDR 3 800 SODIMM) |
| Chipset | Intel® Atom™ D525/N455 + ICH8M |
| BIOS | AMI |
| Wake on LAN | No |
| Watchdog Timer | 255 Levels |
| Power Requirement | ATX 2.1 |
| Power Consumption (Typical) | Intel® Atom™ D525 1.8GHz, DDR3 4 GB (Full load) 0.5A@+12V, 2.86A@ +5V |
| Power Supply Type | +5V, +12V for ISA bus |
| Dimension (L x W) | 7.3" x 4.8" (185mm x 122mm) |
| 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) | 73,000 |
| Certification | CE/FCC, Class A |
| Display | |
| VGA/LCD Controller | Intel® Atom™ D525/N455 integrated |
| Video Output | VGA, 18b 1 CH LVDS |
| Backlight inverter supply | 5V/12V |
| I/O | |
| Ethernet | 10/100/1000Base-TX x 2 |
| Audio | Yes |
| USB Port | USB2.0 x 5 |
| Serial Port | RS-232 x 1 (-12V required) RS-232/422/485 x 1 |
| Parallel Port | 1 |
| HDD Interface | IDE x 1, SATA 2 x 3 |
| FDD Interface | 1 |
| SSD | CompactFlash™ |
| Expansion Slot | ISA |
| DIO | 8-bit Programmable (4-in/ 4-out) |
| TPM | — |

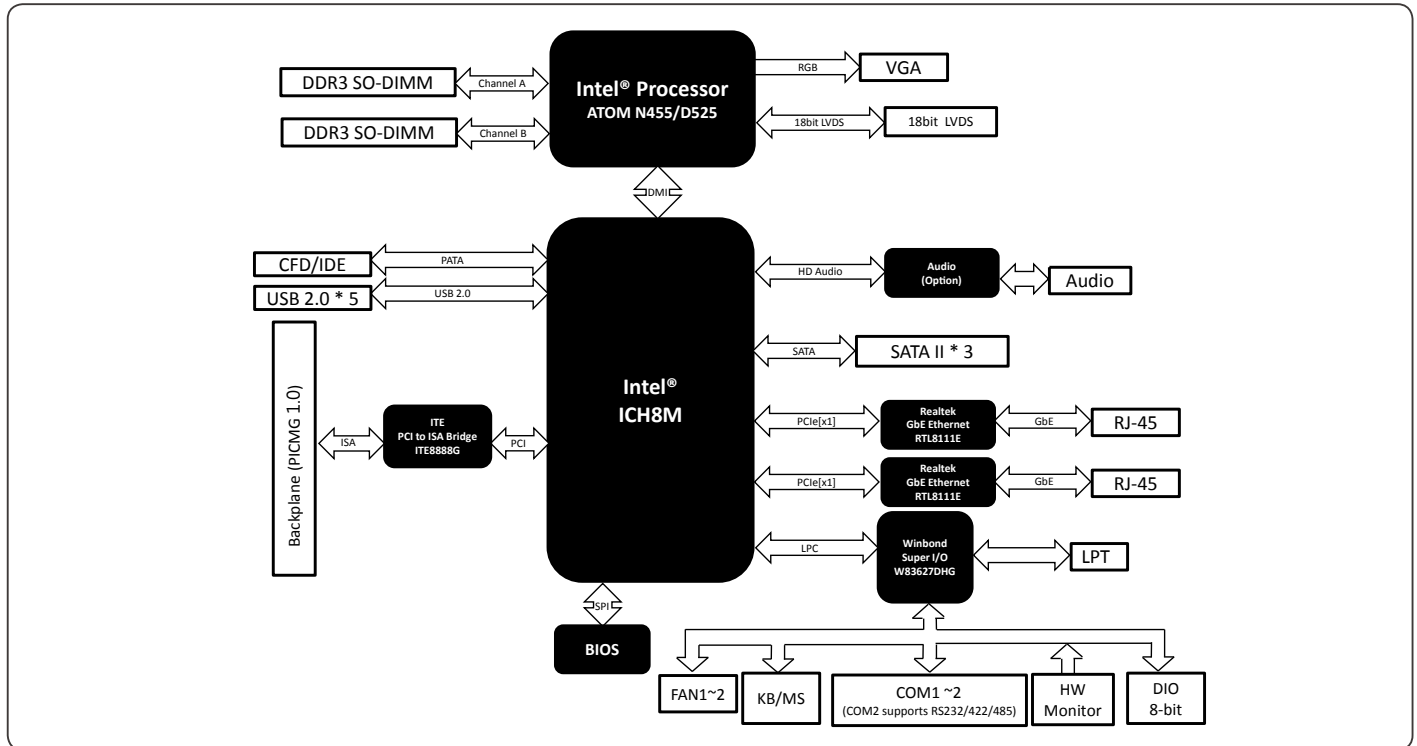
Packing List

- FDD Cable
- IDE Cable
- PS2 KB/MS Cable
- LPT and COM Port Cable
- COM Port Cable
- ATX Cable
- USB Cable
- SATA Cable
- Product CD
- HSB-LN2I

Optional Accessories

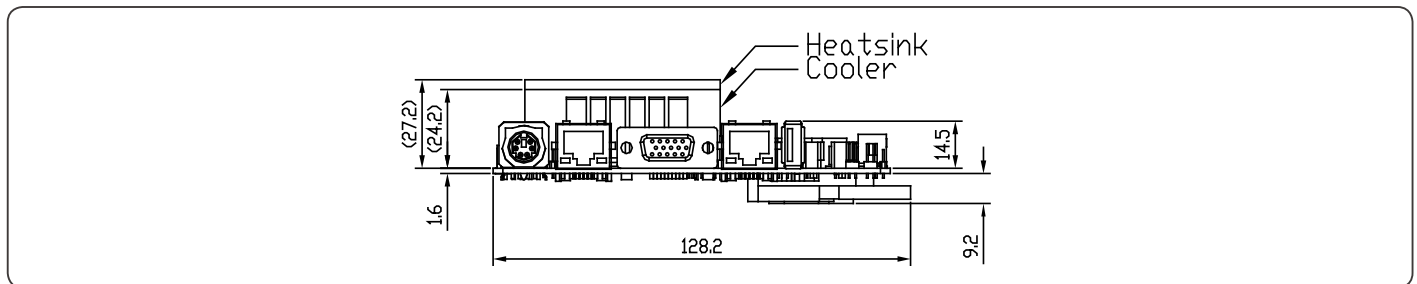
- TF-PER-U01H
HD Code Audio Daughter Board

Block Diagram



Dimension

Unit: mm



Passive Backplane Options

| P/N | Description | Master Interface | Slots (PCI/ ISA/ PICMG_PCI) | Power ATX Extend Function |
|-------------|---|------------------|-----------------------------|---------------------------|
| TF-BP-204SI | Wallmount, ISA, 4-slot Backplane, 4 ISA, Single Segment, AT | ISA | (0/4/0) | AT |
| TF-BP-206SI | Wallmount, ISA, 6-slot Backplane, 6 ISA, Single Segment, AT/ATX | ISA | (0/6/0) | AT/ATX |
| TF-BP-214SI | Rackmount, ISA, 14-slot Backplane, 14 ISA, Single Segment, AT | ISA | (0/14/0) | AT |

Ordering Information

| Part Number | CPU | RAM | Fan/Fanless | Display | Storage | LVDS | LAN | USB | RS-232 | RS-232/422/485 | Expansion Slot | Power | Temp. |
|--------------------|-------------------|--------|-------------|------------|----------------------------|----------|---------|------------|--------|----------------|----------------|---------------|------------|
| HSB-LN2I-A12-G2-00 | Intel® Atom™ D525 | SODIMM | Fan | VGA + LVDS | SATA2 x 3, IDE x 1, CF x 1 | 18b, 1CH | GbE x 2 | USB2.0 x 5 | 1 | 1 | ISA | +5V, +12V, AT | 0°C ~ 60°C |
| HSB-LN2I-A12-G2-01 | Intel® Atom™ N455 | SODIMM | Fanless | VGA + LVDS | SATA2 x 3, IDE x 1, CF x 1 | 18b, 1CH | GbE x 2 | USB2.0 x 5 | 1 | 1 | ISA | +5V, +12V, AT | 0°C ~ 60°C |