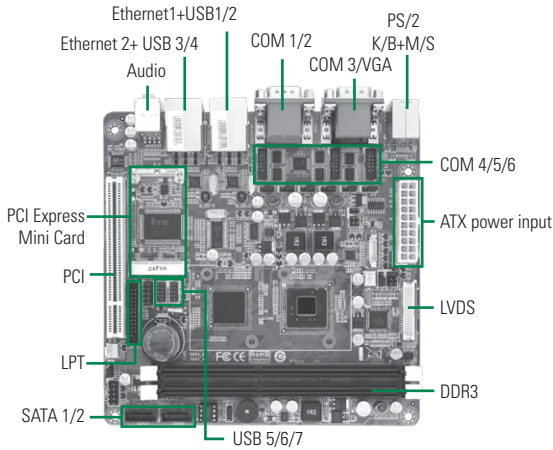


# MANO825

Intel® Atom™ D525 Mini ITX SBC with Intel® NM10 Chipset, VGA/LVDS, Dual LANs and 6 COM



## System

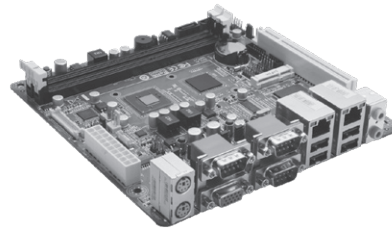
|                     |   |
|---------------------|---|
| CPU                 | Intel® Atom™ processor D525 1.8 GHz onboard   |
| System Memory       | 2 x 240-pin DIMM support DDR3-800 max. up to 4 GB   |
| Chipset             | Intel® NM10   |
| BIOS                | AMI   |
| SSD                 | N/A   |
| Watchdog Timer      | 255 levels, 1~255 sec.  |
| Expansion Interface | 1 x PCI<br>1 x PCI Express Mini card  |
| Battery             | Lithium 3 V/ 220 mAh  |
| Power Requirements  | Intel® Atom™ D525 Dual Core Pineview-D, 2GB DDR3 x 2<br>Max. RMS: +5V @ 1.6A, +12V @ 0.6A, -12V @ 0.1A,<br>+5VSB @ 0.1A, +3.3V @ 1.8A |
| Size                | 170 x 170 mm  |
| Board Thickness     | 1.6 mm  |
| Temperature         | 0° ~ +60°C (32°F ~ 140°F), operation  |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing   |

## I/O

|                     |   |
|---------------------|---|
| MIO                 | 1 x PS/2 keyboard<br>1 x PS/2 mouse<br>6 x RS-232; with +5V/+12V powered by jumper selection<br>1 x LPT |
| SATA                | 2 x SATA-300  |
| Hardware Monitoring | Detect CPU/system temperature, voltage and Smart fan control  |
| Ethernet            | 2 ports as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Realtek 8111E                       |
| Audio               | HD Codec audio as MIC-in/Line-out with Realtek ALC662   |
| USB                 | 7 x USB 2.0 port  |
| SMBus               | System Management Bus for advanced monitoring/control   |
| Digital IO          | 4 channels IN & 4 channels OUT  |

## Features

- Intel® Atom™ processor D525 1.8 GHz onboard
- 2 DDR3-800 MHz 240-pin DIMM max. up to 4 GB
- DualView with VGA & 24-bit LVDS
- 2 SATA-300 supported
- 6 COM ports supported
- PCI slot and PCI Express Mini Card



▲ Side view

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® GMA3150 graphics core                  |
| Memory Size       | Intel® DVM 4.0 compliant                      |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single channel |

## Packing List

User's manual/utility CD, SATA cable

## Ordering Information

|                   |  |
|-------------------|--|
| <b>Standard</b>   |  |
| MANO825VGGGA-D525 | Mini ITX SBC with Intel® Atom™ processor D525, VGA/LVDS, 2 10/100/1000Mbps Ethernet, 6 COM, HD audio and PCI expansion |