

# MBOX-6000

## Intel D2550 Dual Core 1.86GHz Marine Box Computer



- Cedar view
- Dual Core
- DDR3 1066
- VGA / DVI-I
- 5.1 Audio
- Dual GbE Lan

### System

|             |  |
|-------------|--|
| CPU         | Intel Cedarview Atom™ D2550 Dual Core 1.86 GHz |
| Memory      | 1 x DDR3-1066 SO-DIMM up to 4GB                |
| Chipset     | Intel NM10                                     |
| Graphics    | Intel GMA3650                                  |
| ATA         | 2 x Serial ATA 2.0 Ports                       |
| LAN Chipset | 2 x Intel i210-AT Gigabit Ethernet             |
| Watchdog    | 1 ~ 255 Level Reset                            |

### I/O

|               |  |
|---------------|--|
| Serial Port   | 1 x RS232/422/485 and 1 x RS-232/RS-485<br>( optional up to 5 Serial port)             |
| USB Port      | 4 x USB 2.0 Ports  |
| LAN           | 2 x RJ45 Ports for GbE, support WOL, PXE and Teaming                                   |
| Option        | connectors can be changed to 2 x M12 on rear side                                      |
| Video Port    | 1 x DVI-I* Female Connector, 1 x VGA Connector Output<br>and 1 x Display Port optional |
| Audio Port    | 1 x Mic-In and 1 x Line-Out  |
| Expansion Bus | 2 x Mini-PCIe Card Slots & 1 x Mini-PCIe with SIM for 3G Module                        |

\* Use only with Single Link DVI Cables.

### Storage

1 x CFAST socket, external removable  
OPTION: 1 x 2.5" Drive Bay for SATA Type Hard Disk Drive  
/ SSD, external removable

### Qualification

|                |  |
|----------------|--|
| Certifications | CE, FCC Class A, IEC60945 4th Edition<br>IACS E10, DNV 2.4 |
|----------------|--|

### Features

- Intel Cedarview Atom D2550 Dual Core 1.86GHz
- Dual Intel GbE LAN port - RJ45 & 4xUSB ports
- 1 x VGA and 1 x DVI-I display output
- 1 x RS232/485 and 1xRS232/422/485
- 4 x digital isolated inputs (4-20mA)
- 4 x Digital isolated open-collector outputs
- IEC60945 Maritime Certified

### Power Requirement

|                  |  |
|------------------|--|
| DC Input Range   | +9V to 32VDC input with "maritime / industrial" surge protection<br>(reverse polarity) |
| Nominal DC Input | +24VDC input   |
| Pin definition   | Positive, Chassis Ground, and Negative   |

### Digital Input/Output

|                 |  |
|-----------------|--|
| Input Channels  | 4ch  |
| Input Voltage   | Logic 0 : 0.8V max<br>Logic 1: 12V min. and 24V max  |
| Output Channels | 4ch  |
| Output Voltage  | Output Capability Sink Current : 200mA<br>(OD):24VDC |
|                 | Logic 0 :0V  |

### Environmental

|                   |                                  |
|-------------------|----------------------------------|
| Operating Temp.   | -25 ~ 70°C, ambient w/ air       |
| Storage Temp.     | -30 ~ 80°C                       |
| Relative Humidity | 10 ~ 95% @ 40°C (non-condensing) |

### Mechanical

|              |   |
|--------------|---|
| Construction | Aluminum Alloy                                |
| Mounting     | Wall-mount, VESA-mount, Din Rail Mounting Kit |
| Weight       | 1200 g (Barebone), TBD                        |
| Dimensions   | 200 (W) x 160 (D) x 55 (H) mm                 |

### Ordering Information

|             |   |
|-------------|---|
| Part Number | 766000001000                                      |
| Description | Intel D2550 Dual Core 1.86GHz Marine Box Computer |



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