

# MBOX-6000

**RE|C|A|B**

YOUR EMBEDDED TEAM PLAYER

## Intel® Atom™ D2550 Dual Core 1.86GHz Marine BoxPC



## Contact Information

**RE|C|A|B Embedded Computers AB****Website:** [www.recab.com](http://www.recab.com)**Email:** [info@recab.com](mailto:info@recab.com)**Contact our local office:****Sweden/Finland**

Fraktflygargatan 7  
12830 Skarpnäck, Sweden  
Tel: +46 8 683 03 00

**Norway**

Mjøskanten, Stangeveien 111  
2321 Hamar, Norway  
Tel: +47 62 54 02 91

**Denmark**

Kirke Værløsevej 24  
DK-3500 Værløse  
Tel: +45 44 35 11 85

## Features

- Intel® Atom™ D2550 Dual Core 1.86GHz processor onboard
- DDR3-1066 up to 4 GB Memory  
IEC60945 certificate, DNV2.4 comply
- Fanless with operating temperature range of -25°C ~ +70°C
- VGA and DVI-I Display Output
- Dual GbE LAN Ports
- 2 x RS-232/422/485
- 4 x USB 2.0
- 1 removable & lockable 2.5" SATA HDD and 1 CFast™
- 4 x Digital Inputs
- 4 x Digital Open-Collector outputs
- Options for Isolated power, 2 x extra GbE LAN Port
- IEC60945, IACS E.10 Certified

## Specifications

|                            |                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard</b>            | Color Black                                                                                                                                                                                                                                                                       |
| <b>Construction</b>        | Aluminum extrusion Alloy, IP22                                                                                                                                                                                                                                                    |
| <b>CPU</b>                 | Intel® Atom™ D2550 Dual Core 1.86GHz                                                                                                                                                                                                                                              |
| <b>System Memory</b>       | DDR3-1066 SO-DIMM up to 4GB                                                                                                                                                                                                                                                       |
| <b>Chipset</b>             | Intel® NM10, GMA3650                                                                                                                                                                                                                                                              |
| <b>System I/O Outlet</b>   | 2 x RJ45 10/100/1000Mbps Ethernet (Intel® i210-AT)<br>1 x RS-232/422/485 & 1 x RS-232/RS-485<br>1 x Isolated DI/DO (4-IN/4-OUT) (Input max. 24VDC)<br>4 x USB 2.0 Ports<br>1 x Audio (Mic-in/Line-out)<br>1 x VGA, 1 x DVI-D<br>1 x VDC power input connector<br>1 x Power Switch |
| <b>Watchdog Timer</b>      | 255 levels                                                                                                                                                                                                                                                                        |
| <b>Storage</b>             | 1 x 2.5" SATA HDD (Rem. and with lock protection)<br>supports RAID 0/1<br>1 x CFast™                                                                                                                                                                                              |
| <b>Expansion Interface</b> | 3 x miniPCI Express Card<br>1 x SIM card slot<br>2 x Serial ATA 2.0 Ports                                                                                                                                                                                                         |
| <b>Power Supply</b>        | 9V ~ 32VDC, Typical 24VDC, Marine approved                                                                                                                                                                                                                                        |
| <b>Power Consumption</b>   | 465mA (avg.), 560mA (max.) @ 24VDC (AVG)<br>(OS: WES7P, 4GB CFast™, 4GB RAM)                                                                                                                                                                                                      |
| <b>Oper. Temperature</b>   | -25°C ~ +70°C ambient w/ air                                                                                                                                                                                                                                                      |
| <b>Storage Temperature</b> | -30°C ~ +80°C                                                                                                                                                                                                                                                                     |
| <b>Humidity</b>            | 10% ~ 95% @ 40°C, non-condensing                                                                                                                                                                                                                                                  |
| <b>Vibration Endurance</b> | Frequency range: 3-13.2 Hz, Amplitude: 1.0 mm<br>Frequency range: 13.2-100 Hz, Acc. ampl.: 0.7 g                                                                                                                                                                                  |
| <b>Dimensions</b>          | 200 mm (7.87") (W) x 160 mm (6.3") (D)<br>x 55 mm (2.17") (H)                                                                                                                                                                                                                     |
| <b>Weight (net/gross)</b>  | 1200g (bare bone)                                                                                                                                                                                                                                                                 |
| <b>Mounting</b>            | Wall-Mount, VESA-Mount and DIN Rail Kit                                                                                                                                                                                                                                           |
| <b>Certification</b>       | CE (Class A), IEC60945 4th certificate, DNV2.4 comply,<br>IACS E.10                                                                                                                                                                                                               |
| <b>EOS Support</b>         | WES 8, WES 7, Linux                                                                                                                                                                                                                                                               |