

ARTS-2870

Marine PC with Intel® Core™ i5-4402E



Features

- **Fanless and rugged design**
- Isolated NMEA 0183
- Isolated RS-232/485 and DIO
- Support power on/off delay control
- Compliant with IEC-60945, IACS E10, DNV 2.4
- Support 3 Video outputs
- Support RAID 0/1

System	
CPU	Soldered onboard Intel® Core™ i5-4402E 1.6GHz
Memory	1 x 204-pin SO-DIMM sockets, supporting DDR3L 1333/1600 MHz, up to 8GB SDRAM
Chipset	Intel® PCH QM87
Graphics	Integrated Intel® HD Graphics 4600
SATA	2 x Serial ATA ports with 300MB/s HDD transfer rate 2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	1x Intel® i217LM GbE PHY (iAMT 9.0 supported) 3 x Intel® i210IT GbE controllers
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS-232/422/485 port w/ DB-9 connectors, rear side, 2 KV isolated protection 8 x NMEA 0183 ports, rear side 2 KV isolated protection
USB Port	2 x USB 3.0 ports type A connector, front side 4 x USB 2.0 ports type A connector, rear side
LAN	4 x RJ-45 port for Gigabit Ethernet
Video Port	2 x DVI-D Female connector 1 x VGA DB-15 Female output
Digital I/O	1 x 8-bit digital I/O, 4-in/4-out w/ 10-pin terminal block, 2KV isolated protection
Antenna	2 x SMA-Female connectors' holes for external antennas
Audio	1 x Line-out with 3.5mm jack 1 x MIC-in with 3.5mm jack
Expansion Bus	1 x Mini-PCIe slot (half-size) 1 x mSATA slot for internal mSATA SSD

Environmental

Operating Temp.	-25 ~ 55°C (-13 ~ 131°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 185°F)
Relative Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	<ul style="list-style-type: none"> • 0.7 @ DNV 2.4 (Class A), sine wave, 2-100 Hz, 1 Oct./min., 1.5 hr per axis • 1 g @ DNV 2.4, random wave, 3-100 Hz, 2.5 hr per axis • 2.1 g @ DNV 2.4 (Class C), sine wave, 2-50 Hz, 1 Oct./min., 1.5 hr per axis
Shock	50 g @ IEC 60068-2-27, half sine wave, 11 ms

Qualification

Certification	CE, FCC Class A Compliant with IEC-60945, IACS E10, DNV 2.4
---------------	--

Power Requirement

Power Input	DC 24V input, 2KV isolated protection
Power Consumption	Max. 60W
Power Management	Power on/off delay controlled by software

Storage

Type	2 x 2.5" drive bays for SATA SSD (1 x outside accessible SSD), support RAID 0/1 1 x mSATA
------	---

Mechanical

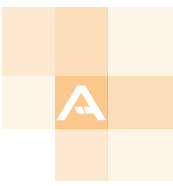
Construction	Aluminum alloy with corrosion resistant
Mounting	Support wall-mount
Weight	5.7 kg (12.56 lb)
Dimensions (W x H x D)	270.4 x 110 x 240 mm (10.65" x 4.33" x 9.45")

OS Support

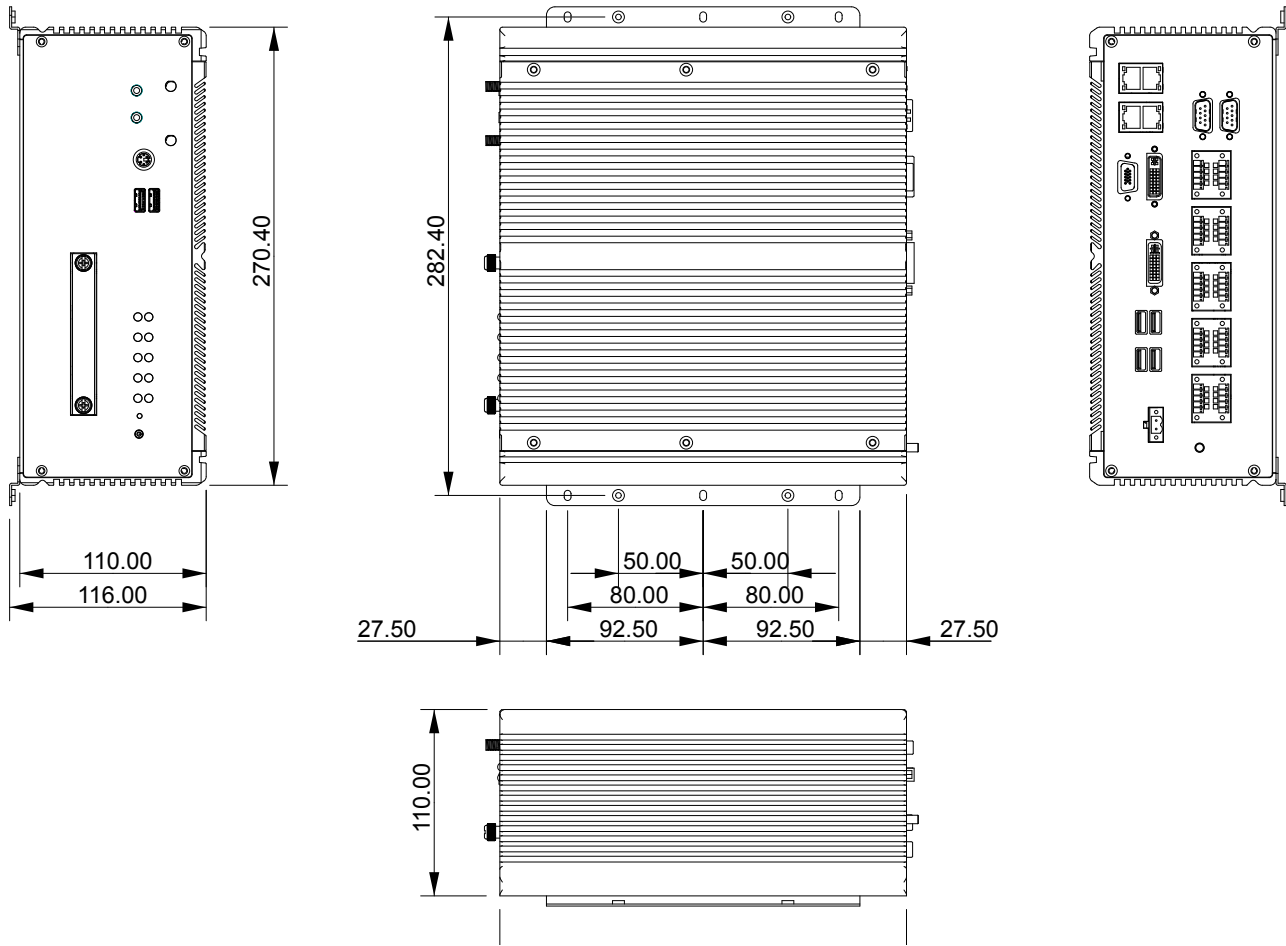
W57E / W7 Pro / WE8 STD/ W8.1 Pro / Linux (Kernel: 3.1X)

Ordering Information

ARTS-2870	Marine Barebone System w/ Intel® Core™ i5-4402E, w/o memory and storage
-----------	---



Dimensions



Optional Accessory

PAC-P120W-FSP 120W AC/DC adapter kit



Optional Configuration (CTOS* Kit)

SSD-25032 Memoright 2.5" 32GB SATAII SSD kit



MM-3CL-2G DDR3L-1333 2GB SDRAM

MM-3CL-4G DDR3L-1333 4GB SDRAM

MM-3CL-8G DDR3L-1333 8GB SDRAM



WiFi-AT2350 Atheros AR9462 Wi-Fi module w/ 20cm & 30cm internal wires



ANT-D11 1 x Wi-Fi dual-band 2.4G/5G antenna



*CTOS means Configure-to-Order Service.