

DATA SHEET

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HATTELAND®
DISPLAY

an EMBRON Company

Manufacturer: **Hatteland Display AS**

Product: **Compact Computer**

Type: **HT C01 STz-yxxx** (z=OS, y=power, xxx=config)

Last Revised: **05 Dec 2017**
Revision#: **34**

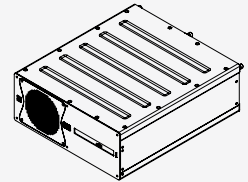
Compact Computer

Features:

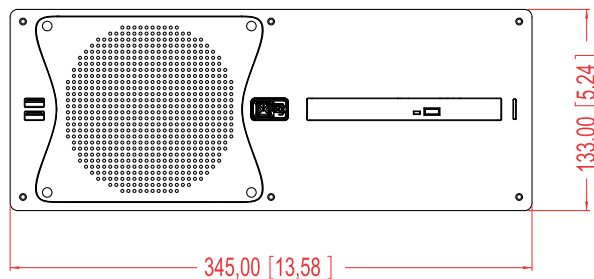
The HT C01 is a compact industrial computer with extreme performance and most computer functions built into a form factor that can be placed virtually anywhere. AC or DC models are available.

The computer fulfills the demands for extreme Marine applications.

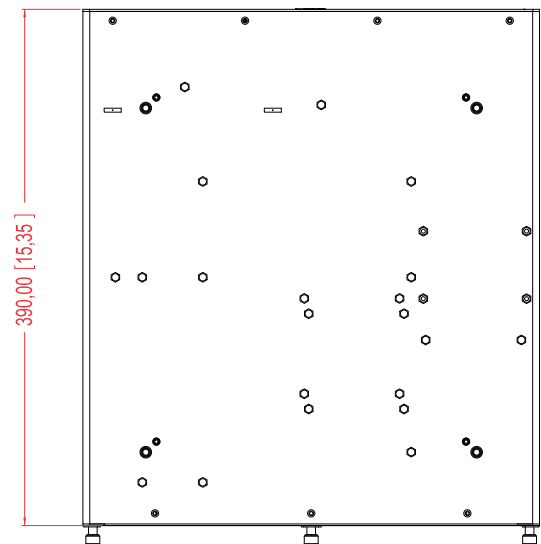
The models are service friendly which makes it easy to replace Hard Disk/SSD media, power supply, memory, media drives, PCI cards, fan and air filter.



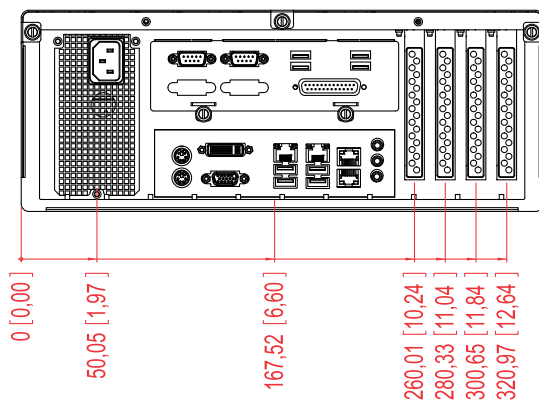
FRONT VIEW



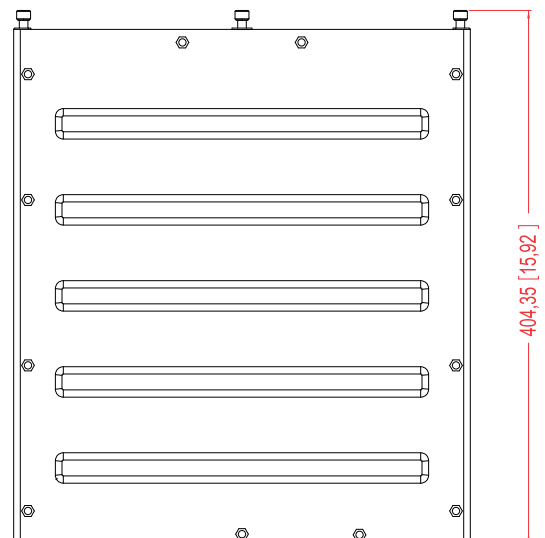
BOTTOM VIEW



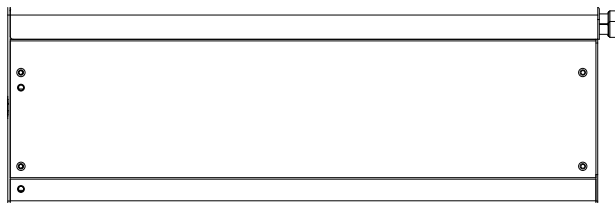
BACK VIEW



TOP VIEW



SIDE VIEW



Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.

TECHNICAL DESCRIPTION

Computer Specifications: (Standard model)

External Connector Type:

• Installed Operating System	: None for standard version (check Accessories / Options below for OS options)	
• Media Drive	: 1 x DVD-RW/CD-RW Dual Recorder/Player	
• Processor	: 1 x Intel® Core™2 Duo Desktop Processor E8400 - 3.0GHz, Bus Speed 1333MHz, 6MB L2 Cache	
• Memory	: 2 x 1GB installed (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) - 4 slots available, max 8GB possible.	1 x DVI-I and 1 x DB15F
• Graphics	: Intel® Graphics Media Accelerator 3100 (Intel® GMA 3100) integrated Note: DVI-I signal support VGA/RGB output via adapter. Due to hardware design achieving 2 x VGA/RGB outputs simultaneously is not possible	
• Graphics Resolution	: Max 2048 x 1536 @ 75Hz	
• System Chipset	: Intel® Q35 / ICH9DO support Intel® Active Management Technology	
• IO Chipset	: Winbond W83627DHG-A	
• BIOS	: AWARD BIOS	
• PCI Slots	: 2 x PCI Rev2.3 Slot 32-bit, 3V and 5V Interface, Full Height & Length	
• PCIe Slots	: 1 x PCI Express X16 (add2), Full Height & Length + 1 x PCI Express X1, Full Height & Length	
• Ethernet #1	: 2 x 10/100/1000Mbps, Intel® 82566DM Gigabit LAN support Intel AMT	2 x RJ-45
• Ethernet #2	: 2 x 10/100/1000Mbps, Realtek RTL 8168C(P)8111C PCI-E Gigabit	2 x RJ-45
• Serial Ports	: 2 x RS-232	2 x DB9M
• Parallel Port (LPT)	: 1 x Bi-Directional Centronics with ECP or EPP mode	1 x DB25F
• USB Ports	: 10 x USB ports (8 in rear, 2 in front) - Supports 2.0 & 1.1	10 x USB Type A
• Keyboard Port	: Standard PS/2 mini DIN connector	1 x PS/2
• Mouse Port	: Standard PS/2 mini DIN connector	1 x PS/2
• Audio	: Realtek® ALC888, 7.1, Mic. in, Line in, 3.5mm or option	3 x JACKS (+1 x DB9F)
• PC-Speaker	: Yes, onboard	
• Power Manager	: ACPI	
• Watchdog Timer	: Reset: 1 sec.~255 min. and 1 sec. or 1 min./step	
• H/W Status Monitor	: Temperatures, voltages & cooling fan status. Auto throttling control if CPU overheats	

Power Supply Options:

• 115&230VAC - 50/60Hz	: Model HT C01 STx-Axxx (330W)	STD IEC
• 24 VDC	: Model HT C01 STx-Dxxx (220W)	1 x 2p D-SUB (male) Amphenol FCC17
• Power Consumption - Operating	: 70W typical (HT C01 STx-A100) - 70W typical (HT C01 STx-D100)	

Available Models:

HT C01 STD-A100 or -D100 with: 1 x Intel® Core™2 Duo Desktop Processor E8400 - 3.0GHz 2 x 1GB installed (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) 1 x Easy Replaceable Automotive HDD 1TB or more* 2.5" SATA, 5400RPM, 8MB Buffer 1 x Microsoft® Windows® Embedded Enterprise (XP Professional Eng w/SP2c, 32bit)	HT C01 STD-A101 or -D101 with: 1 x Intel® Core™2 Duo Desktop Processor E8400 - 3.0GHz 2 x 1GB installed (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) 1 x Easy Replaceable Automotive HDD 1TB or more* 2.5" SATA, 5400RPM, 8MB Buffer 1 x Bluestorm Serial I/O card (4 x COM Ports - Supports RS-232/422/485) 1 x Microsoft® Windows® Embedded Enterprise (XP Professional Eng w/SP2c, 32bit)
HT C01 STD-A102 or -D102 with: 1 x Intel® Core™2 Duo Desktop Processor E8400 - 3.0GHz 2 x 1GB installed (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) 1 x Easy Replaceable Automotive HDD 1TB or more* 2.5" SATA, 5400 RPM, 8MB Buffer 1 x Microsoft® Windows® Embedded Enterprise (XP Professional Eng w/SP2c, 32bit) 1 x Matrox® P690 DualHead Graphics Card, PCIe, DVI-I, 128MB, Max 2048 x 1536* <i>* If 1600x1200 resolution is used, DVI signals must be set to CVT-RB (Coordinated Video Timing-Reduced Blanking) mode manually.</i>	HT C01 STD-A104 or -D104 with: 1 x Intel® Core™2 Duo Desktop Processor E8400 - 3.0GHz 2 x 1GB installed (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) 1 x 40GB or more* 2.5" SATA Solid State Disk (SSD) 1 x Microsoft® Windows® Embedded Enterprise (XP Professional Eng w/SP2c, 32bit)

* Size indicated is the lowest size available/approved for current revision of data sheet. The unit will support increased disk space in future. Please contact sales for up-to-date status.

Available Accessories:

• HT 00225 OPT-A1 = 2 x 26" ball bearing sliding rail and mounting kit for 19" Rack	• HT 00229 OPT-A1 = 1 x Mounting Bracket PCI Kit HT C01
• HT 00224 OPT-A1 = 2 x 20" ball bearing sliding rail and mounting kit for 19" Rack	• JH C01MF A-A = 1 x USB Cable 1m, Type A to Chassis mount receptacle
• HT 00223 OPT-A1 = 1 x 4U 19" Rack Case Kit (compatible with HT 00224/00225)	• HT 00235 OPT-A1 = 1 x 2W Amplified Audio out via 1 x DB9F
• HT 00226 OPT-A1 = 2 x Mounting Bracket, 4mm SECC+Zinc Plating, RAL9011*	• HT 00300 MSOS = OS options -> http://www.hatteland-display.com/os

Models without/with OS:

*Please see user manual/datasheet for more information *included with standard delivery

• HT C01 ST0-xxxx	= No OS
• HT C01 STD-xxxx	= Microsoft® Windows® Embedded Enterprise (Win XP Pro Eng w/SP2c, 32bit)
• HT C01 ST3-xxxx	= Microsoft® Windows® Embedded Enterprise (Win Server 2003 Eng, 32bit)
• HT C01 ST7-xxxx	= Microsoft® Windows® Embedded Enterprise (Win 7 Pro Eng, 32bit)
• HT C01 ST8-xxxx	= Microsoft® Windows® Embedded Enterprise (Win Server 2008 Eng, 32bit)

Capabilities / Prepared for:

For a full overview of model typenumbers, please review the following link: www.hatteland-display.com/pdflink/ind100780-5.php

• HT 00253 OPT-A1 = 4 x COM isolated, incl. cable, RS232/422/485	• 8GB (Dual Channel DDR2 800/667MHz SDRAM, 240-pin DIMM) memory
• HT 00252 OPT-A1 = 8 x COM isolated, incl. cable, RS232/422/485	

MECHANICAL DESCRIPTION

Physical Specifications:

- 345.00 (W) x 133.00 (H) x 390.00 (D) mm
- 13.58" (W) x 5.24" (H) x 15.35" (D)
- Weight: 10 kg (approx)
- Power button, power led, reset button and HDD Led in front
- Replaceable Air Filter in front
- Includes Mounting Brackets (for console mounting)

Compass Safe Distance HT C01 STx-xxxx = Standard: 155cm/Steering: 95cm

Environmental Considerations:

- Operating : Temperature -15 deg. C to +55 deg. C
Humidity up to 95%
- Storage : Temperature -20 deg. C to +60 deg. C
Humidity up to 95%

Lifetime Considerations:

Even although the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

APPROVALS & CERTIFICATES

IEC 60945 4th (EN 60945:2002)
LRS - Lloyd's Register of Shipping

These products have been tested / type approved by the following classification societies:
IACS E10
GL - Germanischer Lloyd

EN61162
BV - Bureau Veritas

ClassNK - Nippon Kaiji Kyokai
ABS - American Bureau of Shipping

DNV - Det Norske Veritas
EU RO MR - Mutual Recognition