

Manufacturer: **Jakob Hatteland Technology AS**

Product: **Maritime Stand-alone Computer - Black Box 1**

Type: **HT B04XX-STD-A1** (where XX is processor board)



Last Revised: **16 Aug 2004**
Revision#: **0**

Maritime Stand-alone Computer (MSC)

Overview:

The **HT B04** is a powerful ultra compact industrial computer with most computer functions built into a form factor that can be placed virtually anywhere. This unit can be equipped with 4 different processor boards; PentiumIII Celeron (**HT B04CE STD**), Eden (**HT B04VE STD**), Transmeta (**HT B04TM STD**) or Pentium M (**HT B04PM STD**) processor.

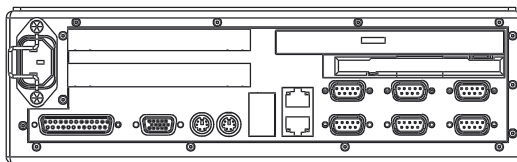
An ideal and robust unit for mobile, marine and automation systems. Can also run with passive CPU cooling (without fan) as an option. Useable for TFT, CRT and Plasma.

Global Computer Specification: (Applies for all XX models)

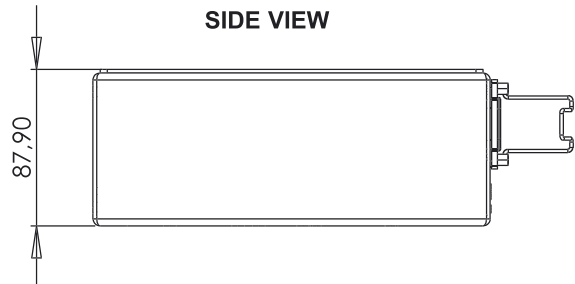
- 30GB 2,5" HDD
- Compact Flash Reader
- 10/100Mbps and 10/100/1000Mbps Gigabit Lan
- 6 x RS-232/422/485 Serial Ports, fully isolated
- 1 Parallel port
- Standard PS/2 for keyboard and mouse.
- Dimensions 290 (W) x 88 (H) x 223 (D) mm
- 110/230V or 24VDC - 100W Power supply



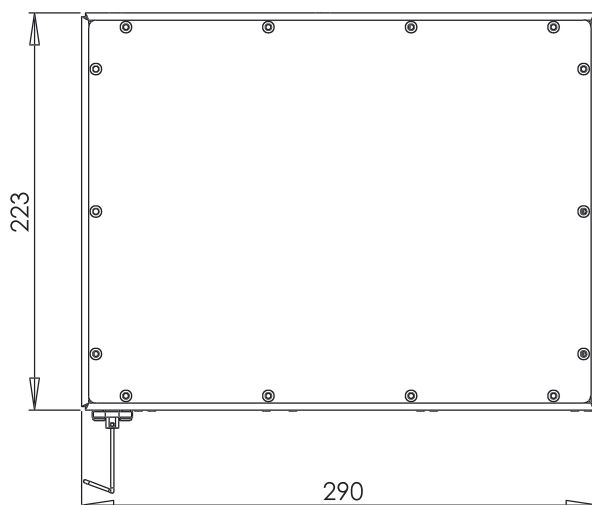
BACK VIEW



SIDE VIEW



TOP VIEW



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Due to dimensions without decimals, the tolerance on drawings is +/- 1mm (For accurate measurements, measure in AutoCAD)
Technical drawings (.DWG format) are found on our internet site: <http://www.hatteland.com>

TECHNICAL DESCRIPTION

Global Computer Specifications:

• IDE HDD	: 30GB 2.5", 5400 RPM, 2MB Buffer	DB15F
• VGA OUT	: 1 x DSUB 15P (Spec: See Processor Board Options)	
• Solid State Disk	: CompactFlash Reader with eject button	DB25F
• Parallel Port (LPT)	: 1 x Bi-Directional Centronics with SPP/EPP/ECP mode	DB9M
• Serial Ports	: 6 x RS-232/422/485 (fully isolated com ports)	RJ-45
• 1st Ethernet	: 1 x 10/100 Mbps	RJ-45
• 2nd Ethernet	: 1 x 10/100/1000 Mbps Intel 82541GI Giga Lan	USB
• USB Ports	: 3 x USB 1.1 (2.0 compliant)	PS/2
• Keyboard Port	: Standard PS/2 mini DIN connector	PS/2
• Mouse Port	: Standard PS/2 mini DIN connector	
• Speaker	: On-board	
• Power Manager	: APM Ver 1.2 and ACPI 1.0a	
• Monitoring	: Power supply, fan and temperature supervision (Also see Processor Board Options)	

Connector Type:

Power Specifications:

Power Supply Options:		STD IEC
• 110VAC/60Hz or 230VAC/50Hz	: Model HT B04XX STD A1 (100W)	Screw Terminal
• 24 VDC	: Model HT B04XX STD A2 (100W)	

Power Consumption:

• Operating	: TBD(TYP) - TBD (MAX)
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PRELIMINARY

Processor Board Options:

HT B04CE STD:

• CPU	: Intel Mobile Pentium III 500MHz Processor
• Front Side Bus	: 66/100/133MHz
• Chipset	: Intel 815E
• VGA	: SMI SM721G8 8MB
• BIOS	: Award 2Mbit Flash BIOS
• RAM	: 1 x SODIMM slot, ->512MB, PC100/133 MHz SDRAM
• IDE Interface	: Enhanced IDE supports UDMA 33/66/100, PIO mode 4

HT B04VE STD:

• CPU	: VIA C3 / Eden 667MHz Processor
• Front Side Bus	: 100/133MHz
• Chipset	: VIA ProSavage TwisterT
• VGA	: Savage4 AGP4X with 2D/3D Graphics Capabilities
• BIOS	: Award 2Mbit Flash BIOS
• RAM	: 1 x SODIMM slot, ->256MB, PC100/133 MHz SDRAM
• IDE Interface	: Enhanced IDE supports UDMA 33/66/100, PIO mode 4
• TV-Out	: 1 x Composite RCA plug + 1 x S-Video plug - TV Encoder

HT B04TM STD:

• CPU	: Transmeta Crusoe 800MHz Processor, L2 Cache 512KB
• Front Side Bus	: 66MHz
• Chipset	: Transmeta Crusoe, VIA VG82C686A/B
• VGA	: SMI SM722 8MB with 2D/3D Graphics Capabilities
• BIOS	: Award 2Mbit Flash BIOS
• RAM	: 1 x SODIMM slot, ->256MB, PC100/133 MHz SDRAM
• IDE Interface	: Enhanced IDE UDMA 33/66/100, PIO mode 4
• Misc. Functions	: Watchdog Timer

HT B04PM STD:

• CPU	: Intel Pentium M 1.0GHz Low Voltage, 1MB L2 Cache
• Front Side Bus	: 400Mhz
• Chipset	: Intel 82855GME
• VGA	: Intel Extreme Graphics with 2D/3D Graphics Capabilities
• BIOS	: Phoenix 2Mbit Flash BIOS
• RAM	: 1 x SODIMM slot, ->1GB, PC200/266/333 MHz SDRAM
• IDE Interface	: Enhanced IDE UDMA 33/66/100

Available Component Options:

• IDE HDD	: Upgradable to max 80GB, 2.5", 5400RPM, 2MB Buffer
• I/O Slots	: 2 x PCI Half Length Profile or 1 x PCI104 & 1 x PCI Half Length Profile or 1 x PCI & 1 x ISA Half Length Profiles
• CD-ROM / RW	: 1 x 24x SLIM CD-R or 1 x 24x10x24 SLIM CDRW
• Floppy FDD	: 1 x 1.44 MB 3.5" SLIM
• Audio	: AC-97 2.2 compliant, 6 channel, 5.1 speaker with LINE IN, LINE OUT, MIC IN 3.5mm jacks

Note: These options are factory installed.

MECHANICAL DESCRIPTION

Physical Specifications:

• 290 (W) x 88 (H) x 223 (D) mm
• Weight: 3 kg (approx)
• Aluminium Chassis

Environmental Considerations:

Safety 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

This product have been tested / type approved by the following classification societies: