DATA SHEET

Manufacturer:	**Jakob Hatteland Technology AS**
Product:	**Maritime Stand-alone Computer - Black Box 2**
Type:	**HT P3BB2 MSC**

jht **HATTELAND**™ **TECHNOLOGY**
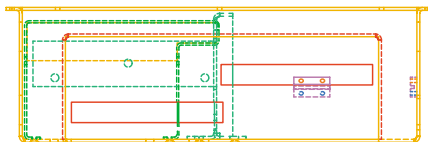
Maritime Stand-alone Computer (MSC)

Overview:

The BB2 MSC is a small industrial computer with expansion slots for customers that need PCI and ISA cards included in their systems. 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. This product can be manufactured after your specifications.

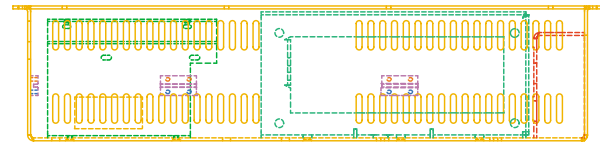**Standard version delivered with:**
- PIII 733MHz (Socket 370)
- 128-Bit Graphic Controller with 2D/3D Acceleration
- 128MB RAM
- 30GB 2,5" HDD
- CD-ROM SLIM (24x)
- 1,44MB 3,5" FDD SLIM
- 10/100Base-T Fast Ethernet with Wake-On-LAN
- 2 x RS-232 Serial Ports (or 1x RS-232 and 1 x RS-485)
- 1 Parallel port
- Standard PS/2 mini DIN connector and pin header for keyboard and mouse.
- Dimensions 405 (W) x 98 (H) x 290 (D)
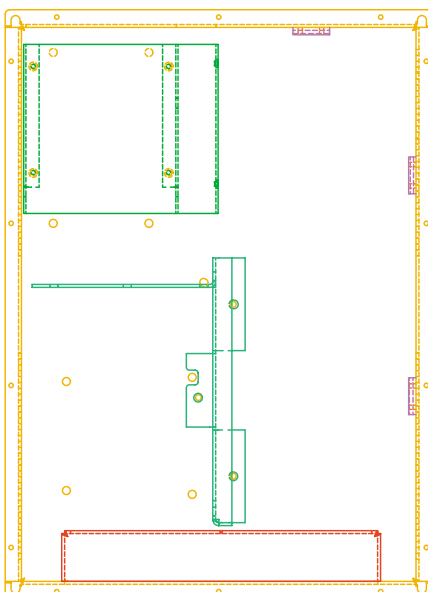- 230V 100W Power supply (without cooling fan)

FRONT VIEW

SIDE VIEW

TOP VIEW

Note: All specifications are subject to change without prior notice!

TECHNICAL DESCRIPTION

Computer Specifications:

• Prosessor	: Intel Pentium III or Celeron 733MHZ (up to 1GHz) / Socket 370 / 133MHz FSB / 256KB Cache
• System Chipset	: Highly Integrated SIS 630 Chipset
• BIOS	: Phoenix BIOS
• Bus/IO Ports	: 2 x Half Size PCI, 1 x Half Size ISA, 1 x ¾ Size ISA, 1 x PC/104 and 1 x PC/104+
• Memory	: 2 x 144 Pin SODIMM, 128MB (Sockets supports max 1GB SDRAM)
• Graphic Controller	: 128-Bit 2D/3D accelerated graphic controller with up to 64MB video memory
• Resolution	: Max 1920 x 1200 with 16.7 millions colors
• IDE Drive	: 30GB 2.5" HDD (Expandable)
• Display Output	: CRT1, CRT2* (independent of CRT1), TV-Out* (S-Video and Composite in PAL/NTSC), PanelLink, DVI, DFP & LVDS***
• DVD/MPEG2	: Hardware accelerated DVD/MPEG2 decoding with direct TV-OUT* playback
• HDD Controller	: Ultra DMA 66 IDE, ATA 66 compliant. Secondary interface for 2.5" HDD support. Supports max 4 IDE devices.
• FDD Controller	: 2 x 3.5" 1.44 MB or 2.88 MB
• Parallel Port (LPT)	: 1 x Bi-Directional Centronics with ECP or EPP mode
• Serial Ports	: 4 x RS-232C or 3 x RS-232C and 1 x RS-485 - NS16C550 Serial ports with 16 byte FIFO buffer
• Ethernet	: 1 x 10/100 Base-T PCI Fast Ethernet with Wake-On-Lan
• USB Ports	: 2 x USB on board with 1.5 & 12Mbps. (Up to 5 USB ports***)
• Power Manager	: APM Ver 1.2 and ACPI 1.0
• IrDA	: Ver 1.1 with 4Mbps
• Flash Disc	: CompactFlash up to 196MB and DiskOnChip up to 288MB
• Watchdog	: Supervision of supply voltage and SW execution
• Monitoring	: Processor temperature and fan supervision
• Keyboard Port	: Standard PS/2 mini DIN connector and pin header
• Mouse Port	: Standard PS/2 pin header
• Audio	: Sound Blaster PRO 16, Virtual AC-3 Surround Sound and SP/DIF compatible*
• Speaker	: On board with connector for external speaker option
• OS's Supported	: Win98 / NT4.0 / Win2000 / WinXP / Win CE.Net / Win XP Embedded / Redhat Linux 7.3

* Requires Extension Module   *** Prepared for. Requires development of Extension Module

Power Specifications:

Power Supply Options:

• 115VAC/60Hz or 230VAC/50Hz	: Model HT P3BB2 MSC A1 (100W)
• 12VDC or 24VDC	: Model HT P3BB2 MSC A2

MECHANICAL DESCRIPTION

Physical Specifications:

- 405 (W) x 98 (H) 290 (D) mm
- Weight: 3,5 kg (approx)
- Aluminium Chassis
- 1 x accessible CD-ROM 24x SLIM
- 1 x accessible Floppy Drive 1,44MB 3,5" SLIM

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.

Input/Output Connectors:

Function	Back side	Inside	Front
IDE		40p, 2,54mm	
PCI		Full Length Profile	
AGP		AGP Std.	
PC/104		104 Connector	
PC/104+		104+ Connector	
10/100BaseT	RJ-45		
Keyboard	PS/2		
Mouse	PS/2		
COM 1	DB9		
COM 2	DB9		
RGB-Out	DB15		
LPT1	DB25		
USB	Std. USB		Std. USB
Floppy		25p, 2,54mm	
Power-In	AC Connector		
Mainboard Power		ATX	
Audio Line-In	3,5mm Mini Jack		
Audio Line-Out	3,5mm Mini Jack		
Audio Mic-In	3,5mm Mini Jack		

APPROVALS & CERTIFICATES

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

EN60945 3rd (IEC945 3rd)
EN50082-2
EN55022
And meets the hardware requirements in IEC61174 e.2.0 (ECDIS)