

# TinyByte

## Onboard Computer for your Yacht



040928 tinybyte\_eng

### Small size, low noise, small consumption and low price The guidelines for the development of a revolutionary onboard PC

With the onboard computer **TinyByte** SPI Marine presents a brand new PC-platform. Experienced bargeman together with specialised engineers developed this PC over many years and have **tested it in rough situations** during several ocean voyages. In virtually every detail, beginning with the **shock resistant drive**, from the large format flat screen, to the **small power consumption**, the consequent adaptation to on-board conditions becomes apparent.

TinyByte uses a special processor with extremely low power consumption. **With 25W on average the PC does not need more energy than a navigation light.**

With the **integrated power supply** unit the TinyByte gets its energy from the onboard battery. SPI also delivers power supply units for 9 volt (DC) up to 110/220 volt (AC) and a special onboard power supply with **UPS**, that guarantees safe operation even at peak load when starting the motor, bow thruster, electric winches, or anchor windlass.



TinyByte has **512 MB memory** (standard) and can be increased to **1,2 GB memory** maximum.

The **shock-resistant drive** is available from 40 GB to 80 GB, this is more than enough capacity for e. g. storing high-resolution nautical charts.

**Modern PC-navigation** means fast computing of several data and measured values. Based on special software meteorological observations are analysed enabling precise forecasts and dependent decisions.

Different from a laptop TinyByte offers **numerous ports for NMEA-compatible devices (GPS, board instruments etc.)**, mouse-, keyboard- and TFT-monitor as well as mobile printers.

Thanks to its **small size**, ( 8" x 3" x 7.75" ) the TinyByte onboard Computer has been optimised to fit into the panel of most sailing or motorised yachts.

In addition the MPEG-2 decoder for DVD-playback has very high-resolution graphics, FireWire and USB interfaces for CD, DVD, scanner, photo- and video equipment defining TinyByte to be a full **multimedia centre**. TinyByte is delivered with Microsoft® Windows XP Home pre installed.

**Processor** - 1,2 GHz processor, for low consumption

**Working storage** - standard 512 MByte or max. 1024 MByte

**CF Card Reader**

**PCMCIA Slot** (Radar Overlay)

**SPI ITM** (Intelligent Temperature Management)

**Screen** - TFT-Monitor port incl. hardware MPEG-2 decoder for DVD playback

**Harddisc** - default 40 GByte, optional up to 80 GByte, shock-resistant version

**Network connection** - RJ-45 LAN 10/100 Base-T Ethernet, data transfer to notebook

**Firewire** - (IEEE1394) port for external devices (harddisc, CD, DVD, camera)

**USB** - 4 USB 2.0 compatible ports for external devices (harddisc, CD, DVD, camera, NMEA/USB multiplexer)

**V24/RS232C** - 2 serial ports for NMEA compatible devices (GPS, radio receiver etc.)

**Mouse and keyboard** - PS/2 mouse- and keyboard ports (optional: wireless keyboard and mouse)

**Audio** 5.1 digital sound OUT line, microphone, CD - IN

**TV OUT** - S-Video and Composite OUT for TV and video recorder

**Shell** - Corpus and inner parts special steel V4A, front cover aluminium eloxed and scrape-safe enamelled

**Power supply unit** - standard: 12V (+-15%) power pack unit integrated (reverse batterie protected), 230V powerpack within delivery. Internal fuse 10A. Other power packs available.

**Current consumption** - with 12 V DC "standby": <200 mA, typical: <2 A, maximum with disc- and CPU full load: <3A

**Measures**

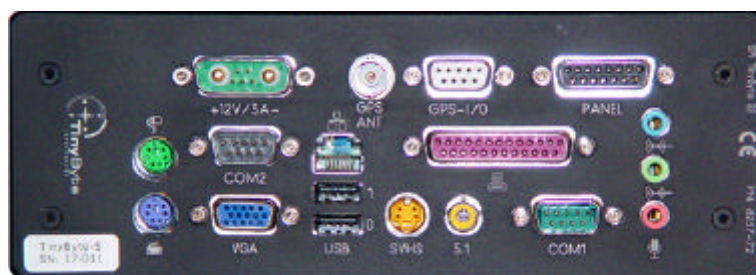
width: ~ 8.2"  
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## That much necessary:

**The modular TinyByte concept allows upgrading to suit your personal demands**

- Navigation center, chart plotter, NMEA monitor for every common available instrument
- GPS-navigation with sea- or land charts (TinyNav)\*
- optionally embedded GPS receiver\*
- current weather forecast and -fax, NAVTEX news\*
- air pressure control and gale warning (TinyBar)\*
- E-mail and internet via mobile phone\*
- SAT-TV-Box and mobile-antenna\*
- DVD replay (DVD device)\*
- CD audio and MP3 record and play
- rework digital images and photos
- CAN-Bus (NMEA2000) extension possible\*

\* Not every component included with standard delivery. Execution possible with external devices or installation of software. Please ask SPI Marine for spec. options.



## The matching power supply unit for every purpose:

- integrated 12V power supply
- external 230V power supply
- optional 8-16V or 20-30V and 100-120/220-240V with automatic switching between on-board and shore power supply (with UPS).



A special frequency converter is not prerequisite.

Contact your local TinyByte reseller:

visit [www.spimarineshop.de](http://www.spimarineshop.de)

