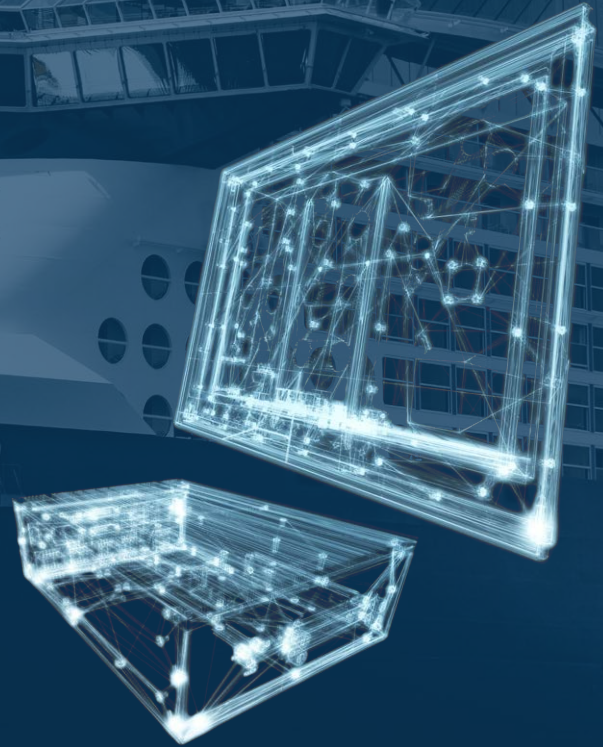


IoT Enabled Products

Did you know that our products have been IoT compatible for the past 16 years, even before IoT was the latest buzzword in the industry?

With IoT you can easy, fast and secure review any product parameters, Accessible from anywhere on any device, monitor and estimate health of products to ensure optimal operation today and tomorrow.

Via an IoT EDGE application you can collect data from the various sensors in our products, and send this information to a Cloud Service for further processing and analytics!



Form Fit

Form fit system hardware ensures that components may be exchanged seamlessly throughout the life span of a ship – whether due to component errors and repairs, or upgrades to keep pace with technological advancements – without the need for a system redesign.

This reduces the time and cost of hardware replacement and system upgrades.



Lifecycle Management

Lifecycle management guarantees the continued production and delivery of industrial-grade embedded components in a ship's critical systems.

By choosing a hardware partner that provides lifecycle management you ensure that all networking, data processing, and display hardware and software will be supported throughout 7 years.

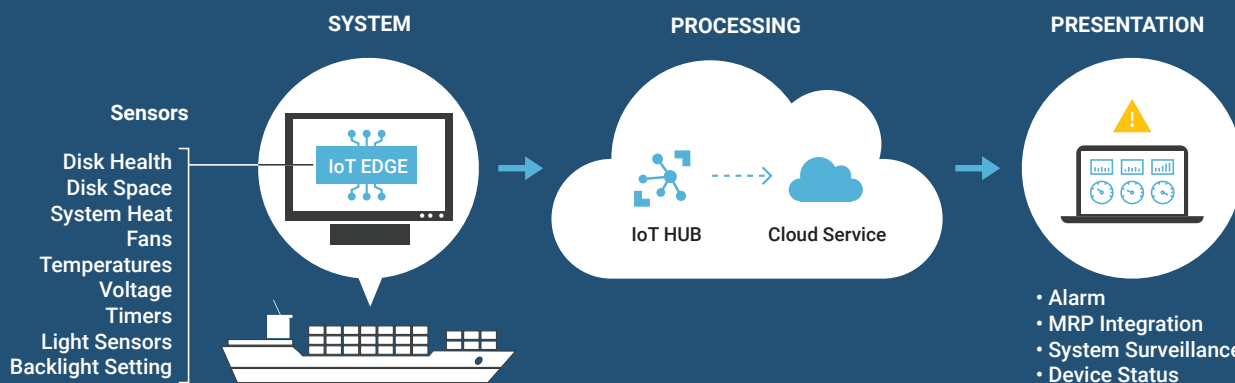


Backward Compatibility

Backward compatibility eliminates the risk of a software image becoming outdated and unusable due to hardware upgrades.

By integrating backward compatible, marine approved and providing support for all communication modules (i.e. serial bus, ethernet, rich I/O and modular), new and old, as well as a range of previous OS releases, you extend the life span of your system.

Products with IoT Support



What products from Hatteland Technology already supports IoT?

This document provides an overview of onboard IoT parameters of Hatteland Technology products and their access methods. The Computer and Panel Computer motherboards and the system built around are equipped with features of sensing temperature, voltage, environmental luminance and other diagnostic parameters. The end-user can utilize the parameters to analyze the working status of the system. The IoT parameters are distributed in different modules, examples SuperIO, VCOM and S.M.A.R.T.

Data received can be used in unlimited ways!

Since the data sent to Cloud Service is stored in a structured plain text format and accessible via standardized API, there is no limits on how you can use this data further in any type of application, part of software development or even design your own customized graphical layouts to easily illustrate the data - in near real-time!



Actual Screenshot of IoT Sensor demo

Display	Chipset
HD 08T21 STD, HD 12T21 STD, HD 13T21 STD, HD 12T21 STD, HD 15T22 MMD, HD 15T21 STD, JH 15T17 MMD, HD 17T22 MMD, HD 17T21 STD, HD 19T22 MMD, HD 19T21 STD, JH 19T14 MMD, JH 20T17 MMD, JH 22T11 MMD, JH 23T14 MMD, HD 24T22 MMD, HD 24T21 STD, HD 26T22 MMD, HD 26T21 STD, HD 27T22 MMD, HD 32T22 MVD, HD 43T22 MVD, HD 55T22 MVD	NXP / On-board

Panel Computer	Chipset
HD 12T21 MMC, HD 15T21 MMC, HD 17T21 MMC, HD 19T21 MMC, HD 19T21 MMC, HD 24T21 MMC, HD 26T21 MMC	Intel® BD82QM57
HD 19T22 MMC, HD 24T22 MMC, HD 26T22 MMC, HD 27T22 MMC	Intel® GL82Q170 PCH
HD 16T30 MMC, HD 21T30 MMC, HD 24T30 MMC, HD 27T30 MMC	Intel® SOC

Compact Fanless Computer	Chipset
HT B22	Intel® BD82QM57
HT B30	Skylake U
enix-2807	Intel® Q87

Compact Computer	Chipset
HT C02	Intel® Q87

Rackmount Computer	Chipset
HT 221	Intel® Q87
enix-41X10	Intel® C612

Typical Parameters available for monitoring
VBAT (CMOS Battery Voltage), VCore (GPU Core Voltage), V5V (+5V), V12V (+12V), V3VSB (3.3V Standby), V3VCC (3.3V Active), CPUTEMP (CPU temperature PECL), SYSTEMP (SYS Temperature onboard), SYSFAN (System FAN speed), LIS (Light Sensor via SCOM), S.M.A.R.T. Data (for HDD/SSD) and System Parameters provided by Operating System, like CPU load, RAM load, Disk load etc.



Contact us or need more information?

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 Visit our extensive Product Brochure Library at www.hattelandtechnology.com/brochure-library