

Helios™ Platform



FEATURES

Connectivity made simple – Select wireless service or wired connectivity, pre-certified and simple to deploy.

ESF ready – Enable your application to meet evolving requirements through the simple to use APIs offered by Everyware™ Software Framework.

EDC ready – Speed up time to market with cloud enabled data management and delivery.

Feature rich – Choose from multiple OS and hardware options that ideally match your application.

- **Machine to Machine**
- **Automation**
- **Industrial**
- **Medical**

The Eurotech Helios™ edge controller provides a flexible and programmable hardware platform with enhanced wireless connectivity that enables simplified data acquisition and integration. The Helios edge controller is used to collect data from distributed devices, monitors and sensors; aggregate and rationalize disparate data; and transmit the information to a central processing center. With the Helios platform, you can quickly and simply create an edge controller device, loaded with your application software that precisely meets the needs of your target customers.

The Helios platform offers Four Degrees of Flexibility – programmability, hardware, software, and connectivity. Connectivity choices mean you can select pre-certified wireless modules for cellular, Bluetooth, WiFi and others depending upon technology or carrier preferences.

The programmable Helios device offers Everyware Software Framework (ESF), a simple to use set of APIs enabling you to implement the latest technologies with ease. Hardware flexibility lets you choose the initial device options based on the specs you need to meet, including processor speed, memory capacity, temperature range and video display.

Additionally, Helios supports the Everyware Device Cloud (EDC), the end-to-end Solution connecting data from distributed devices to business applications.

Software options include Microsoft Embedded Standard, CE 6.0 or Wind River Linux 3.0 operating systems.

Start with the Helios platform from Eurotech, and you are well on your way to creating an industrial-grade application device that you can take to market quickly.



System Architecture

PROCESSOR	Intel® Atom™ Z5xx processor at 1.1 GHz (up to 1.6 GHz options) Intel® System Controller Hub US15W (Intel® SCH US15W)
GRAPHICS /VIDEO /AUDIO	Multimedia card support for display and audio options
MEMORY	512 MB DDR-2 DRAM (up to 2 GB options) 2 GB CompactFlash® card (SD card option) On-board PATA flash (option) Internal SATA drive (option)
OPERATING ENVIRONMENTS	Wind River Linux 3.0 Windows® Embedded Standard Windows® CE 6.0
POWER	12V DC (up to 36 V vehicle power input option) TBDW (base system) Power management support capable of operation at < 3W
COMMUNICATIONS AND I/O	USB Bay w. three USB 2.0 host ports (H/F/L speeds) for wireless devices and storage Three external antenna connections to the USB Bay Two general-purpose USB 2.0 host ports (H/F/L speeds) Gigabit Ethernet port EIA-232 or EIA-485 serial port (software-selectable) GPS with external antenna connection (option)
PERIPHERALS	Eight software-controlled LED status indicators Software-readable push-button Battery-backed real-time clock
PHYSICAL	ABS plastic and aluminum enclosure (25.9 x 12.1 x 4.5 cm) Adaptable I/O side plates Removable USB Bay cover Mounting options Extended temperature -40°C to +85°C (0°C to 70°C for 1.6 GHz option)

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