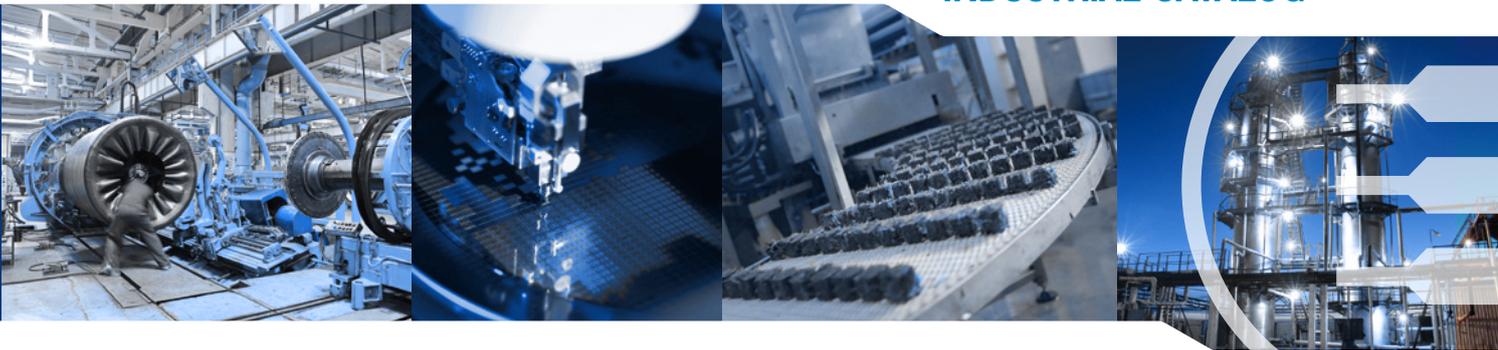


INDUSTRIAL CATALOG





AN INTERNATIONAL GROUP AT YOUR SERVICE

Eurotech is a leading technology Group with a global presence spanning Europe, the USA and Asia.

We integrate hardware, software, services and expertise to deliver embedded computing platforms and sub-systems to leading OEMs, system integrators and enterprise customers for successful and efficient deployment of their products and services. Our customers rely on us to simplify their access to state-of-art embedded technologies so they can focus on their core competencies.

Our efforts are focused on providing much more than great hardware: we have built an ecosystem of interoperable components, software and services that enable consistent and quick development of end user projects.

We recognize and target the most critical success factors, such as:

- Time to market
- Ruggedness
- Compliance to industry standards and certifications
- Reliability and long term availability
- Local and global support

INDUSTRIAL CATALOG

Eurotech is one of the worldwide leaders in embedded platforms for the industrial market.

Eurotech offers solutions for use in the industrial and commercial markets based upon a wide range of rugged platforms, subsystems and boards. With application areas including industrial PCs, HMIs, access & security, data concentrator/logger/gateways and monitoring & control, Eurotech is uniquely placed in being able to offer hardware, operating system, communications and middleware components all developed and supported directly in-house.

Offering extensive expertise based upon field-proven systems, along with fast-track development platforms that accelerate time to market, and long lifecycle support from a leading global manufacturer of embedded computing products, Eurotech is an ideal development partner for customer applications requiring standard or custom solutions, platforms and devices.

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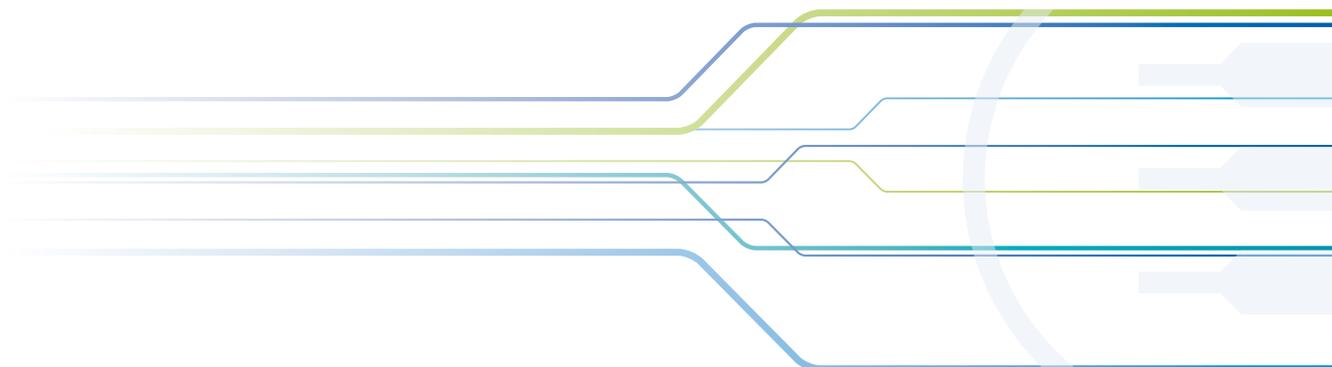
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ALUDRA ICE

FLEXIBLE INDUSTRIAL COMPACT ENCLOSURE



FEATURES

- Intel Atom N270 based platform
- AC or wide range DC power in
- Standard connections 2x Ethernet, 4x USB 2.0, 4x serial, VGA and audio
- Optional antenna interface for WiFi, GPS and cellular modem mini PCI Express MiniCards expansion via PC/104 and PC/104+
- Optional expansion via PCI

The ALUDRA ICE features include a range of optional communications and I/O interfaces, an optional hard disk and up to three additional PC/104 expansion boards (or one PC/104 if PCI expansion boards are used). Capable of booting from Compact Flash memory, the enclosure can be configured as a completely fanless and diskless device. Additional storage can be accommodated via solid state disk or conventional hard disk. A wide range filtered PSU circuit means the unit can be powered from vehicle power supplies (protection excludes load dump) or directly from industrial instrumentation cabinets and systems operating off 12V or 24V DC. An alternative AC version allows the unit to be powered directly from the mains supply.

BENEFITS



- Fanless, diskless operation
- Low power design
- Power supply flexibility
- Expandability
- Rugged modular construction

MACHINE CONTROL
HMI
PROCESS CONTROL

INDUSTRIAL GATEWAYS
KIOSKS
DIGITAL SIGNAGE

APPLICATIONS

Example: Thin client industrial automation



GENERAL SPECIFICATIONS

CPU	Intel Atom N270 processor 1.6GHz (2.5W)
RAM	Up to 2GB DDR2 SDRAM
Storage	Optional
Video	VGA interface
Audio	HD Audio CODEC supporting stereo line in, line out and mono microphone
Peripherals	4x USB 2.0 supporting low/full/high speed modes 2x fast Ethernet port supporting 10/100 Base-Tx 4x serial ports (RS232) Parallel ATA 2x serial ATA)
Expansion capabilities	PCI socket (expandable to two sockets with dual PCI riser) PC/104+ (PCI 32-bit) PC/104 (ISA 16-bit) 2x PCIe MiniCard (PCIe + USB) Expansion via PCI will restrict the space available for PC/104 expansion and vice versa
Dimensions	270 x 258 x 99mm including mounting flanges 223 x 258 x 99mm excluding mounting flanges
Power supply	90 – 264V, 47 – 63Hz AC PSU or 6 – 32V DC PSU
Operating temperature	-20°C to +60°C (no hard drive fitted) 0°C to +50°C (with hard drive fitted)
OS Support	Embedded Linux Windows Embedded Specific RTOS support (call for details)
Certifications	CE and FCC EMC Compliant EN 55022 EN 55024

FAQ

What type of power supply options are available for the ALUDRA ICE? The ALUDRA ICE supports 90-264V AC and 6-32V DC power in.

Can I use the rear 25-way I/O expansion connectors in conjunction with PCI add-on cards? No, adding PCI cards in the system can conflict with the I/O expansion connectors.

Can I add both PCI and PC/104 add-on cards? Yes, but only one PC/104 card can be fitted if the PCI add-on cards are also present.

ANTARES ICE

INDUSTRIAL I/O SERVER

FEATURES



- Intel Core i7/Celeron processors
- Supports Windows Embedded 7 and Embedded Linux OS
- Expansion capabilities via PCIe and PCIe MiniCard, with provision for SIM card integration.
- I/O includes Gigabit Ethernet, USB and Serial ports

The ANTARES ICE is a 1U high 19" rack mount computer that can be used as an industrial PC or embedded (diskless) platform. This solution has a broad range of applications, including data aggregation and monitoring. It provides high performance in harsh working environments, with MIL-STD-810 shock and vibration certification ensuring exceptional reliability under the most demanding conditions. High performance is offered through powerful Intel Core CPU. The ANTARES ICE supports a rich set of onboard peripherals, multiple video ports and Trusted Platform Management (TPM) for secure computing.

BENEFITS



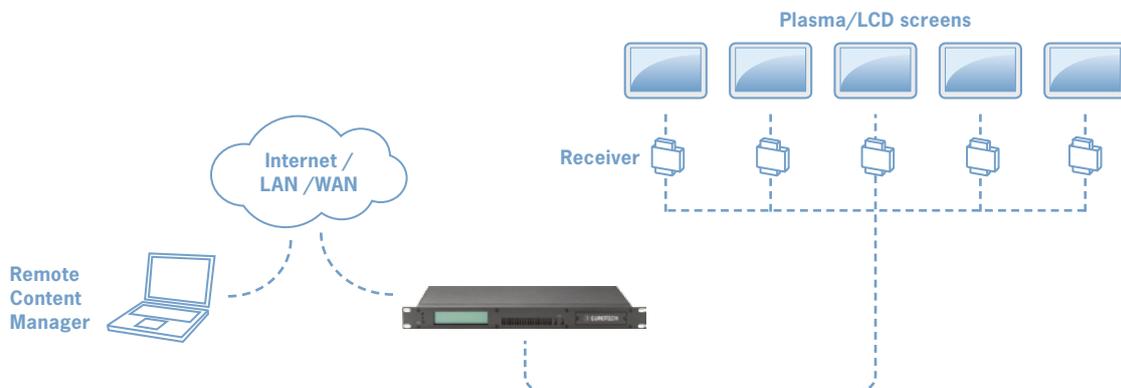
- Great server for rugged applications
- Wide range of CPU options including Core i3, i5 and i7
- Low power, fanless Core i7 option
- Many storage options: 2x 2.5" and 2x 3.5" hard disks, DVD/RW
- Feature rich with full I/O options

CONTROL ROOM
MULTI MEDIA INFOTAINMENT
DATA CONCENTRATORS

IN THE FIELD SERVER
COMMUNICATIONS CONTROL
PLANT AUTOMATION

APPLICATIONS

Example: Digital signage



GENERAL SPECIFICATIONS

CPU	Intel Core i7 and Celeron, up to 2.53GHz
RAM	Up to 8GB with ECC support
Storage	HDD bay 1 accepts an internal 3.5" disk. HDD bay 2 accepts an internal 3.5" or up to 2 externally accessible, hot swappable 2.5" disks. SDIO slot for flash memory DVD/RW
Peripherals	6x USB, 2x GbE, 1x RS232, 1x RS232/RS485/RS422, 2x HDMI, VGA option, audio, TPM
Expansion capabilities	2x PCIe slots 2x PCIe MiniCard sockets with SIM support
Dimensions	1U high, 19" rack mount chassis (352mm deep)
Power Supply	Universal AC (90-132V, 180-264V AC @ 47-63Hz, auto-ranging) 24V DC option
Operating Temperature	+5°C to +50°C (+41°F to +122°F)
OS Support	Windows Embedded, Windows and Embedded Linux
Certifications	MIL-STD-810F EN 55022 EN 55024

FAQ

Which configuration supports fanless operation? The ANTARES ICE supports fanless operation when fitted with an Intel Core i7 620UE 1.06GHz CPU.

How do you manage the two PCI Express expansion slots in 1U? An internal raiser provides up to two PCI Express expansion slots; the PCI lane arrangement is either 1 x 4 or 2 x 2.

How many hard disks can be fitted in the ANTARES ICE? The ANTARES ICE supports a mix of 2.5" and 3.5" hard drives.

There are two bays that are available for storage devices:

- one user-accessible bay that can hold one 3.5" or two 2.5" disks
- one internal bay that can hold one 3.5" disk and one DVD/RW drive

How do I access the SD card / Mini PCI Express card slots? These slots are protected by a cover and can be accessed without opening the enclosure.

What are the specs of the front LCD display? Can I use it to display my information? The front panel LCD display has a resolution of 256 x 64 pixels. It can be used to display user-defined information.

ISIS ICE

RUGGED COMPUTER WITH GREAT EXPANDABILITY



FEATURES

- Intel Atom Z5xx processing
- Preconfigured for Wind River Linux or Windows Embedded
- Antenna interfaces for optional onboard GPS, internal WiFi and PCI cellular modem
- Standard connectors for Ethernet, 4x USB 2.0, 2x serial and VGA

The ISIS ICE is a modular, rugged, low power flexible system based on the Intel Atom Z5xx CPU available in a range of height profiles. The ISIS ICE is an ideal selection for space-constrained applications requiring a combination of high processing capability, low power consumption and comprehensive interfacing capabilities. Rugged construction and a wide range, automotive filtered DC power input make the unit suitable for installation in a wide variety of demanding environments. Available with either Windows Embedded or Embedded Linux operating systems pre ported and ready to run, the ISIS ICE is also optionally available with Eurotech Everyware Software Framework (ESF), allowing direct connectivity to Eurotech Everyware Device Cloud (EDC).

BENEFITS



- Rugged, expandable, low power
- Modular with three height options
- Wide range of communications and I/O interfaces
- Wide temperature operating range
- ESF allows for rapid application development
- EDC allows for connection to any business application

REMOTE ASSET MONITORING & CONTROL
PROCESS CONTROL
MACHINE CONTROL

COMMUNICATION GATEWAYS
ENVIRONMENTAL MONITORING
ENERGY MANAGEMENT

APPLICATIONS

Example: Machine control/automation



GENERAL SPECIFICATIONS

CPU	Intel Atom up to 1.6GHz
RAM	Up to 1GB
Storage	Up to 4GB on-board FLASH disc Optional internal HD
Peripherals	1x VGA 4x USB 2.0 1x 10/100 Base-Tx Ethernet 1x RS232/485/422 1x RS232 1x iTrax300 20 channel GPS receiver
Expansion capabilities	Up to 2x PC/104 or PC/104+ boards 2x PCIe MiniCard socket 1x SIM card socket 4x user accessible ports
Dimensions	Small: (no PC/104 expansion) 160 x 56 x 128mm (6.3" x 2.2" x 5.04") Medium: (up to 1 additional PC/104 card) 160 x 82 x 128mm (6.3" x 3.23" x 5.04") Large: (up to 2 additional PC/104 or PC/104+ cards) 160 x 108 x 128mm (6.3" x 4.25" x 5.04")
Power supply	Filtered 9 – 36V DC, with ignition and automatic filtering (excludes load dump)
Operating temperature	-20°C to +60°C (-4°F to +140°F)
OS Support	Windows Embedded Wind River Linux
Certifications	E-mark

FAQ

How can I expand the ISIS ICE? The ISIS ICE can be expanded by stacking up to 2x PC/104 or PC/104+ modules and by adding up to two PCI Express MiniCard modules. All ISIS ICE versions support up to two PCI Express Minicard modules; in addition to these, the large version supports up to 2x PC/104 PC/104+ modules, while the medium version allows one PC/104+ expansion. The small version is very compact and does not support PC/104+ expansion modules. Signals from PC/104 (+) expansion cards are broken out via 25 way D type connectors fitted to the end panels.

What is a Wide Range PSU? This type of power supply is capable of accepting unstable, "dirty" power input (as can happen in mobile applications) and deliver clean, stable power to the device.

What is E-mark? E-marking is a certification for vehicle safety (systems and components) regulated by the Economic Commission of Europe (ECE), which represents EU and non-EU members.

ZEUS ICE

RUGGED SYSTEM FOR WIRELESS DATA ACQUISITION/ROUTING

FEATURES



- XScale PXA270 520MHz CPU RISC Processor
- Embedded Linux / Windows CE OS
- 3G/GPRS/IDEN Connectivity
- GPS location awareness
- 802.11b/g WiFi
- Dual 10/100 Base-Tx Ethernet
- Dual USB
- 3x serial ports

The ZEUS Industrial Compact Enclosure (ICE), designed to accommodate the Eurotech ZEUS low power embedded processor board, is ideal for remote telematic and wireless data acquisition and routing applications. The ZEUS ICE features a very rugged aluminium construction that is ready to use within a wide range of environments and operating conditions. Powered by XScale PXA270 520MHz CPU, this solution's functionality incorporates industry standard connectors and can be expanded to house an additional PC/104 I/O module, providing a high degree of flexibility and connectivity.

BENEFITS

- Very rugged design
- Tolerant of demanding industrial environments
- Compact and lightweight
- Low power design

ASSET CONTROL
INDUSTRIAL APPLICATIONS
LOGISTICS

MOBILE TERMINALS
NETWORK COMMUNICATION
CONTROLLERS

APPLICATIONS

Example: Remote control for industrial applications



GENERAL SPECIFICATIONS

CPU	XScale PXA270 520MHz
RAM	SDRAM: 128MB soldered onboard (other memory fits available with custom builds subject to minimum order quantity)
Storage	32 MB Flash (other memory fits available with custom builds subject to minimum order quantity)
Video	Standard DB15 RGB female option
Audio	N/A
Peripherals	Cellular Networks; Optional GPRS/IDEN/3G GPS Dual 10/100 Base-Tx Ethernet 2x USB Ports Serial Ports; 2x RS-232, 1x RS-232/422/485
Expansion capabilities	CompactFlash (CF+) accessible via removable plate Support for MMC/SD/SDIO cards PC/104
Dimensions	238 x 137 x 65mm (9.37" x 5.39" x 2.56") (L x W x H)
Power supply	10 to 30V DC
Operating temperature	-20 to +65°C (without 802.11) 0 to +60°C (with 802.11)
OS Support	Linux Eurotech optimized Kernel Windows Embedded
Certifications	EN 55022 EN 55024

FAQ

What display output options are supported for my application? The ZEUS ICE has VGA via a 15 pin sub - D connector.

Are there any expansion capabilities for I/O? The ZEUS ICE has a built in PC/104 stack that allows for additional cards to add functionality which optionally can be wired to two DB25 connectors on the faceplate.

Does it support automotive applications? The ZEUS ICE has transient protection for automotive applications available for 12 or 24V DC environments.

Industrial PCs BX- Series

EXPANDABLE, FANLESS, HIGH PERFORMANCE INDUSTRIAL PCS

FEATURES



- Intel Atom up to Core i5 processing
- Low power and fanless versions
- AC and DC power options
- Wireless option
- Many mount options (DIN rail and brackets)

The BX family of Industrial PCs has been designed to provide solutions for almost any industrial application. CPU choices range from the power efficient Intel Atom to the high performance Core i5. BX Industrial PCs meet the most demanding requirements and offer maximum configurability: RAM size, storage type, interfaces, expansion slots and WiFi options. Software support covers most operating systems, including MS-DOS, Windows and Windows embedded. BX Series Industrial PCs come in robust steel cases with many mount options, including DIN rail and brackets.

BENEFITS



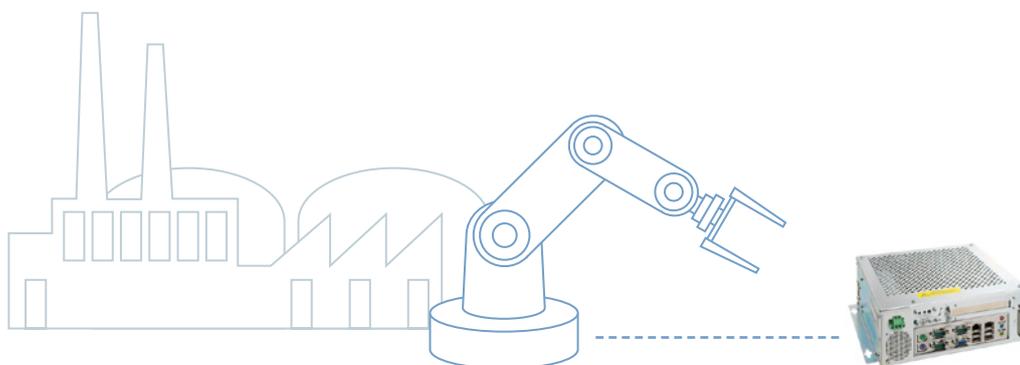
- Designed for robust performance in a wide range of industrial applications
- Fanless and high performance options
- Simple to expand
- Range of mount options

GENERAL PURPOSE COMPUTING
INDUSTRIAL CONTROL

INDISTRIAL MONITORING

APPLICATIONS

Example: Industrial process control



Industrial PCs BX- Series

GENERAL SPECIFICATIONS

	BX-100F-N270 Compact	BX-400F-N270	BX-400P-QM57
Atom N270 1.6GHz	Y	Y	
Celeron P4500 1.8GHz DC			Y
Core i5-520 2.40GHz DC			Y
Chipset	945GSE/ICH7M	945GSE/ICH7M	QM57
Fanless	Y	Y	
Max RAM (GB)	2	2	8
SSD (GB)	64	64	64
HDD (GB)	160	160	160
Compact Flash Option	Y	Y	Y
Video	VGA	VGA/DVI-D	VGA/DVI-D
Audio	N	Y	Y
WiFi Option	Y	Y	Y
RS232/422/485	4	3	3
USB	2	4	4
LPT	Y	N	N
Gb Eth	2	2	2
PCI Slot	PC/104 (PCI only)	1x PCI (5V/32bit)	1x PCI (5V/32bit)
AC Power IN	External (opt.)	External (opt.)	Standard
24V DC Power IN	Standard	Standard	Option
Size (mm)	202 x 146 x 57	245 x 223 x 88	245 x 223 x 88
Weight (Kg)	1.6	3.5	3.5

FAQ

Do you provide PS/2 connectors? Two PS/2 style connectors allow the connection of a keyboard and mouse (one PS/2 connector is available on the BX-100F-N270)

Do you provide audio? On the BX-400QM, the I/O panel has 3 connectors (line-out, line-in and mic-in); on the BX-400F-N270 the I/O panel has 2 connectors. No audio is available on the BX-100F-N270.

Can you offer custom versions? Yes, we offer personalization and customization services. Please contact us for a quote.

Industrial Panel PCs VX- Series

EXPANDABLE, FANLESS AND HIGH PERFORMANCE PANEL PCS



FEATURES

- Available in a range of sizes: from 6.5" to 17"
- Intel Atom up to Core i5
- Windows and DOS support
- Low power and fanless versions
- IP65 front panel
- Touch Panel option
- True Flat panel option
- AC and DC power options

The VX family of high performance, expandable Panel PCs offers extensive versatility for a wide variety of industrial applications. CPU support extends from low power, fanless Intel Atom up to high performance Core i5 CPUs. Ranging from 6.5" to 17", VX Panel PCs offer high brightness and long life. The Touch Panel can be complemented with a True Flat option, making the front surface completely smooth and totally resistant to contaminants, dirt and dust. Supporting both AC and DC power and with many expansion options, including PCI slots, wireless connectivity and serial interfaces, VX Industrial Panel PCs are the ideal solution for installations demanding high reliability and a flexible configuration. VX solutions support most operating systems, including MS-DOS, Windows and Windows Embedded.

BENEFITS



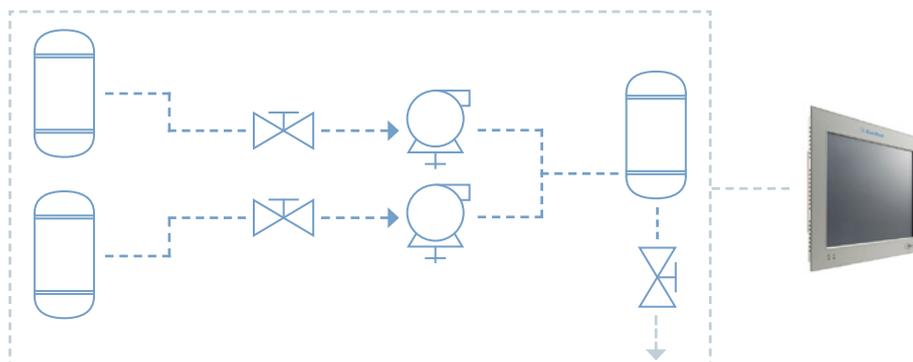
- Designed for robust performance in a wide range of industrial applications
- Long life, high brightness panel with wide viewing angle
- Fanless and high performance options
- True Flat Option for superior hygiene and resistance against contaminants

INDUSTRIAL APPLICATIONS
HMI
POS

MEDICAL
HEALTHCARE
FOOD INDUSTRY

APPLICATIONS

Example: Industrial process control



Industrial PANEL PCs VX- Series

GENERAL SPECIFICATIONS

	VX-60F-N270	VX-80F-N270	VX-121F-N270	VX-121P-QM57	VX-151F-N270	VX-151P-QM57	VX-171P-QM57
Screen size	6.5"	8.4"	12.1"	12.1"	15"	15"	17"
Resolution	640 x 480	800 x 600	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1280 x 1024
Backlight	LED	LED	LED	LED	TFT	LED	LED
Brightness (cd/m2)	700	450	400	500	350	400	350
Backlight life (h)	50000	50000	50000	50000	50000	50000	50000
Touch (resistive)	4 wire	4 wire	8 wire	8 wire	8 wire	8 wire	8 wire
Front panel protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65
True Flat option					Y	Y	
Open frame option	Y	Y	Y	Y	Y	Y	Y
Atom N270 1.6GHz	Y	Y	Y		Y		
Celeron P4500 1.8GHz DC				Y		Y	Y
Core i5-520 2.40GHz DC				Y		Y	Y
Chipset	945GSE/ICH7M	945GSE/ICH7M	945GSE/ICH7M	QM57	945GSE/ICH7M	QM57	QM57
Fanless	Y	Y	Y		Y		
Max RAM (GB)	2	2	2	8	2	8	8
SSD (GB)	64	64	64	64	64	64	64
HDD (GB)	160	160	160	160	160	160	160
Compact Flash Option	Y	Y	Y	Y	Y	Y	Y
2nd video port	N	N	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI	VGA/DVI
Audio	N	N	Y	Y	Y	Y	Y
WiFi Option	Y	Y	Y	Y	Y	Y	Y
RS232/422/485	3	3	3	3	3	3	3
USB	2	2	4	4	4	4	4
Gb Eth	2	2	2	2	2	2	2
PCI Slot	PC/104+ (PCI only)	PC/104+ (PCI only)	1x PCI (5V/32bit)				
AC Power IN	External	External	External	Standard	External	Standard	Standard
24V DC Power IN	Standard	Standard	Standard	Option	Standard	Option	Option
Size (mm)	217 x 176 x 80	248 x 207 x 80	336 x 269 x 113	336 x 269 x 113	388 x 316 x 113	388 x 316 x 113	430 x 375 x 118
Weight (Kg)	2.5	3.1	5	6	6	7	8.5

FAQ

What is the True Flat Option? The True Flat Option is a special finishing of the front panel. It offers a seamless, smooth and continuous surface between the display and its bezel. With the True Flat Option, the front panel has no gaps or discontinuities, so dust and dirt cannot collect; moreover stains are very easy to clean.

How many RS422/485 ports are available? One serial port can be configured as RS422 4 wires or RS485 2 wires interface. The interface signals are available on a DB9-F connector.

Can I use PCI/104+ add-on cards? Yes, PCI/104+ (PCI bus only) add-on cards are supported. Using an add-on card in conjunction with the internal hard disk is not possible on the VX-60F-N270 and the VX-80F-N270.

Can I use PCI add-on cards? Yes, on 12.1" units and larger PCI add-on cards are supported. It is possible to use PCI add-on cards in conjunction with the internal hard disk.

Can you offer custom versions? Yes, we offer personalization and customization services. Please contact us for a quote.

What's the purpose of the video port? Use the video (VGA/DVI) port to attach a secondary display.

MTXX Series INDUSTRIAL MONITORS

INDUSTRIAL MONITOR FAMILY

FEATURES



- Sizes range from 8" to 17"
- Wide viewing angle
- High brightness Display
- IP65 front panel protection
- USB and RS232 touch interface
- AC and DC power options

The MTXX family of industrial monitors have high brightness TFT displays, wide viewing angle and long life rear lamps. These monitors are compact, robust, come in a wide range of sizes and can be connected to external computers, such as Eurotech Industrial Computers, using a standard VGA cable. The touchscreen version provides both RS232 and USB interface and the resistive touchscreens are ideal for industrial applications where the user wears gloves or uses a generic pointer.

BENEFITS



- Wide range of sizes
- Extremely compact
- Robust and resistant to harsh environments
- High brightness, wide viewing angle and long life panels
- Resistive touchscreens for industrial applications with gloved operation
- IP65 front panel protection gives simple integration in sealed applications

HMI APPLICATIONS IN ANY HARSH ENVIRONMENT

APPLICATIONS

Example: Operator interface



MTXX Series INDUSTRIAL MONITORS

GENERAL SPECIFICATIONS

	MT8	MT12	MT15	MT17
Screen size	8.4"	12.1"	15"	17"
Resolution	800 x 600	800 x 600	1024 x 768	1280 x 1024
Backlight	TFT	TFT	TFT	TFT
Luminance (cd/sm)	350	400	350	300
Touch (resistive)	4 wire	8 wire	8 wire	8 wire
Front panel protection	IP65	IP65	IP65	IP65
Open frame option	Y	Y	Y	Y
Touch interface	USB/RS232	USB/RS232	USB/RS232	USB/RS232
Video interface	VGA	VGA	VGA	VGA
AC Power IN	Y	Y	Y	Y
24V DC Power IN	OPTION	OPTION	OPTION	OPTION
Size (mm)	248 x 207 x 72.5	350 x 280 x 72.5	405 x 328.5 x 72.5	430 x 375 x 73.5
Weight (Kg)	2.5	4	5	6.5

FAQ

What type of touchscreen interface is supported? For every model you can order either an RS232 or USB touchscreen interface.

Do you provide an On Screen Display (OSD)? Yes, the products feature an OSD that is activated and controlled with 5 buttons on the rear panel.

ReliaGATE 50-21

MULTI-SERVICE GATEWAY & EDGE CONTROLLER

FEATURES



- Intel Atom Z510P Processor
- E-mark certified
- Wind River Linux OS support
- GPS, WiFi, Cellular and Zigbee support
- USB, Ethernet, Serial, CAN Bus, VGA as well as Isolated Digital Input/output and Analog Inputs

The ReliaGATE 50-21 Multi-Service Gateway & Edge Controller is flexible, ready to deploy and designed to enable M2M applications in a wide range of environments. This compact industrial grade smart device is over-the-air configurable and offers extended temperature range, humidity resistance and protected power supply. With high performance delivered through an Intel Atom CPU, the ReliaGATE 50-21 provides high-speed wired and wireless communications, built-in GPS 50-channel receiver, a broad range of I/O interfaces and is enabled for the Eurotech Everywhere Software Framework (ESF) for easy and highly portable programming. It is also natively integrated with the new Everywhere Device Cloud (EDC) 2.0 M2M platform to collect and manage M2M device data, connecting distributed devices and sensors with the business application and IT infrastructure.

BENEFITS



- Robust, portable, flexible and ready to deploy
- Over-the-air configurable
- Wide range of interfaces for communication connectivity applications
- CE, FCC and MIL-STD-810F compliant
- M2M and IoT (Internet of Things) ready
- Secure data storage via the Cloud
- ESF allows for rapid application development and provides the MQTT plug-in for a robust M2M protocol
- EDC allows for connection to any business application

M2M INDUSTRIAL APPLICATIONS
ASSET MANAGEMENT

CONNECTION OF WIDELY DISTRIBUTED
SENSORS, ACTUATORS AND DEVICES TO
THE BUSINESS ENTERPRISE

APPLICATIONS

Example: Oil field applications



GENERAL SPECIFICATIONS

CPU	Eurotech Catalyst XL Intel Atom Z510P, 1.1GHz
Memory	Up to 32 GB Flash with Compact Flash socket 512MB DRAM SODIMM (Support up to 2 GB DRAM)
Wireless	GPS – 50 channel receiver WiFi – 802.11 a/b/g/n – Access Point & Client Cellular <ul style="list-style-type: none"> • Telit HE910 (UMTS/HSPA+) • Telit DE910 (CDMA/EvDO) • Telit GE910 (2G GSM/GPRS) 802.15.4 / Zigbee Support for Zigbee Pro Stack & NXP JenNet networking
Interface	USB - 4x USB 2.0 ports Ethernet - 2x Gigabit Ethernet ports Serial - 2x RS232/RS485/RS422; 2x RS232/TTL (optional) CAN - 2x CANBus Display - 1x VGA Inputs/Outputs - 4x Isolated Digital Input; 2x Analog Inputs / 2x Isolated Digital Outputs
Routing	Static Routes, DHCP, DNS Client Firewalling Security AES, 3DES,SSH, IPsec NAT (Network Address Translation) Terminal Server & Client Port Forwarding
Maintenance Interface	1x serial interface RS232 2x USB 2.0 1x SIM Card Slot and 1x microSDHC slot 4x LED 1x VGA output, 1x Reset pushbutton
Power Supply	9 to 36V DC (Nominal 12) with transient protection
Power Consumption	8W Typical
OS Support	Wind River Linux
ESF and EDC Ready	Yes
Dimensions	188 x 130 x 42.5mm (L x W x H) w/o mounting brackets
Operating Temperature	Extended Temp -20°C to 60°C. Industrial Temp -40°C to 85°C (options)
Storage Temperature	-40°C -85°C
Humidity	95% relative humidity at +45°C non condensing
Compliance	CE, FCC, Mil-810F

FAQ

What are the routing capabilities? From the configuration GUI, it supports connectivity to wired and wireless devices through use of NAT (Network Address Translation), Port forwarding and Static Routes. Further routing techniques are provided from the Linux OS.

Does the ReliaGATE support Over-the-Air (OTA) configuration and updates? Yes, the ReliaGATE 50-21 is configurable remotely for device configuration, application modifications and OS or Firmware updates.

Is it programmable? The ReliaGATE 50-21 offers for application integration, ESF (Everyware Software Framework), similar to that of an Android where applications or bundles are written with easy to use API environment. It also is a Linux device in which existing applications can run or be ported.

Helios

FLEXIBLE EDGE CONTROLLER

FEATURES



- Flexible Atom based platform
- USB expansion bay
- Vehicle power supply
- ESF and EDC ready

The Helios Edge Controller is a flexible hardware platform that can be used to collect and aggregate data from distributed devices, monitors and sensors and transmit information to a central processing centre. It is exceptionally versatile for a range of machine to machine, automation, industrial, medical and other applications. With high performance delivered through Intel Atom processing, the system is enabled for Eurotech Everyware Software Framework (ESF) and the Everyware Device Cloud (EDC) and offers extensive flexibility, connectivity and a wide variety of I/O interfaces.

BENEFITS



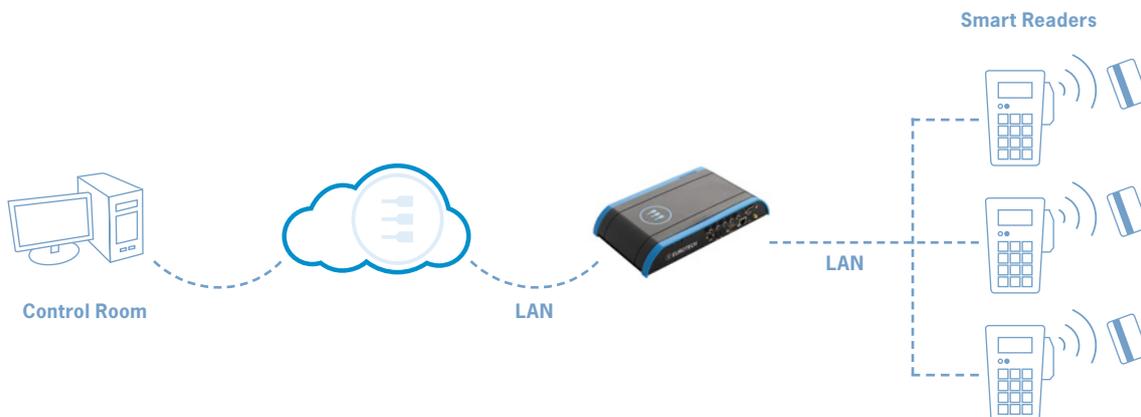
- High degrees of flexibility and programmability
- Can be loaded with application software to meet requirements
- Collect and aggregate distributed data
- ESF allows for rapid application development
- EDC allows for connection to any business application
- Extended temperature range
- Low power

M2M
MOBILE DATA GATEWAY

DATA AGGREGATION AND INTEGRATION
SENSOR MANAGEMENT

APPLICATIONS

Example: Building automation



GENERAL SPECIFICATIONS

CPU	Intel Atom Z5xx up to 1.6GHz
RAM	Up to 2GB DDR2
Storage	2GB Flash Internal SATA interface option
Video	Optional (VGA/LVDS/DVI/HDMI)
Audio	Optional
Peripherals	3x USB 2.0 host ports for wireless and storage devices 2x USB 2.0 general-purpose ports GPS with external antenna option 1x Gigabit Ethernet 1x EIA-232/EIA-485 serial port
Expansion capabilities	USB bay, with 3 locking connectors protected by cover 3x external antenna connections to the USB bay
Dimensions	259 x 121 x 45mm (10.19" x 4.76" x 1.77") Adaptable I/O side plates Removable USB Bay cover Mounting options
Power supply	12V DC (up to 36V DC vehicle power input option) Power management support capable of operation at < 3W
Operating temperature	-40°C to +85°C (-40°F to +185°F)
OS Support	Wind River Linux, Windows Embedded and Windows
Certifications	SAE J1455-2006, vehicle MIL-STD-810F, 20 g/s, 11 ms

FAQ

What is an Edge Controller? An Edge Controller sits between a network and devices that generate or transmit data, such as sensors. The purpose of the Edge Controller is to handle the data and relay it to a wired or wireless network.

What is a Flexible Edge Controller? The Helios is a Flexible Edge Controller (also referred to as a Scalable Edge Node) because it supports two very important features:

- Simple USB expansion with support for wireless technologies
- Programmability, to permit data consolidation, compression and integration. This capability allows for local analysis, encryption and reaction (e.g. to alarms, etc)

What is the USB bay? It is an expansion area that is protected by a removable cover. Here the three USB 2.0 host ports are located; they permit expanding the Helios with peripherals such as wireless and storage USB devices.

What is the purpose of the locking feature of the USB ports? These ports use USB sockets with locking latches preventing accidental disconnects or lost connections due to vibrations.

How do you connect the wireless USB expansions to the external antennas? Each USB port in the bay includes a corresponding connection for an external antenna. The type of connection is dependent on the USB device used.

DynaCOR 10-00

CONNECTED RUGGED MOBILE COMPUTER



FEATURES

- Based on Intel Atom
- Major OS support
- Built-in GPS
- WiFi, 3G, Gigabit Ethernet
- ESF and EDC Ready

The DynaCOR 10-00 is a very compact rugged mobile computer platform ideal for space constrained M2M data capture applications, and is widely used in heavy industrial, rail and road transport sectors. Certified for rugged applications and with IP65 protection rated ultra-light aluminium enclosure, the device is designed for long term reliability, withstanding severe mechanical and temperature stresses in harsh industrial environments while supporting a range of popular wired and wireless communications options. DynaCOR 10-00 is enabled for Eurotech Everywhere Software Framework (ESF) and the Everywhere Device Cloud (EDC) environment, speeding up application software development on the device and ensuring rapid creation of scalable, robust solutions for integrating devices to business applications.

BENEFITS



- IP65 protection rated
- Low power, fanless and sealed
- Certified rugged applications
- Wide range power supply

ACCESS AND MACHINE CONTROL
SURVEILLANCE AND VIDEO RECORDING

M2M INTERFACE
CONNECTED COMPUTING

APPLICATIONS

Example: Vehicle Diagnostics & Asset Management



GENERAL SPECIFICATIONS

CPU	Eurotech Catalyst XL Intel Atom Z510P, 1.1GHz, 512MB RAM soldered on board
Mass Storage	2GB flash disk SSD soldered on board 1 removable micro SDHC card slot for data storage (maintenance interface)
Wireless	A1: GPS 50 channels Galileo ready, SMA connector A2: WiFi 802.11 a/b/g/n Primary, SMA connector A3: WiFi 802.11 a/b/g/n Secondary, SMA connector A4: HSPA/HSDPA/UMTS/GPRS modem (data only), SMA connector
Interface	M1: Power IN +24V DC (+, - and earth chassis) Key Input M2: 1x USB 2.0 port (maintenance); 5x Opto-isolated Digital Output; 10x Opto-isolated Digital Input; 1x Opto-isolated Digital Input Odometer Audio Ports: 1x Stereo Microphone Input, 1x Stereo Headphones Output, 1x Speakers Output M3: 2 x Gigabit Ethernet ports 1x Opto-isolated RS232 serial port 1x Opto-isolated RS422/RS232/RS485 serial port, software configurable
Ground	M4 Screw - System ground connection
Maintenance Interface	1x serial interface RS232 2x USB 2.0 1x SIM Card Slot 1x microSDHC slot 4x LED 1x VGA output, 1x Reset pushbutton
Power Supply	10.5 - 36V DC (Optionally 110 and 72 nominal V DC)
Real Time Clock	24 hours at 25°C (typical)
OS Support	Wind River Linux
ESF Ready	Yes
EDC Ready	Yes
Dimensions	254 x 129 x 57mm (L x W x H)
Weight	1.5Kg
Operating Temperature	-25°C - 55°C EN50155 Class T1 (70°C for 10 min)
Storage Temperature	-30°C - 80°C
Humidity	95% relative humidity at +45°C non condensing
Enclosure	Black ultra-light extruded aluminum alloy enclosure IP65 rating
Cooling	Fanless design (no moving parts)
Compliance	CE, EN 61373 (Vibrations & Shocks) EN 60950 (Safety) EN 61000 (Burst Immunity test) EN 60068 (Temperature test) Designed to meet: DIN-5510-2 (German Fire and Smoke) and ISO-11170 (Italian Fire and Smoke) Load Dump (for 24V In): ISO 7637-2 (2004-06) EN50155 (railway applications)
Peripherals & Accessories	Cable set with standard connectors for an easy peripherals and I/O connection

FAQ

Does the DynaCOR 10-00 allow for VPN connection? Yes, the DynaCOR 10-00 provides VPN connectivity for secure encrypted communications as part of the standard offering.

DuraCOR 1XXX

RUGGED CONFIGURABLE COMPUTER



FEATURES

- Certified for rugged applications in harsh environments
- Low power
- Fanless and sealed
- Modular design
- Support for cellular and wireless radios

The DuraCOR 1xxx family of rugged, fanless mobile computers, compliant with EN50155, are configurable for a wide range of mobile and industrial applications. The computers are available in three heights and can withstand extremes of temperature and harsh operational environments. Features include multiple communication options, support for major operating systems and a wide range of I/O interfaces.

BENEFITS



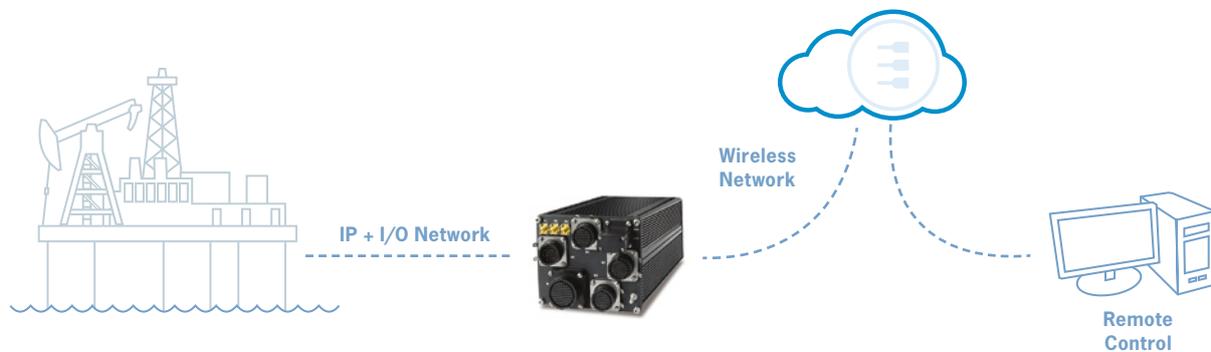
- Modular design
- Can withstand extreme operating conditions
- Can be vehicle mounted
- Easily tailored to specific application requirements
- Extensive peripheral connectivity
- Support for mobile standards worldwide

ACCESS AND MACHINE CONTROL
SURVEILLANCE AND VIDEO RECORDING

M2M INTERFACE
CONNECTED COMPUTING

APPLICATIONS

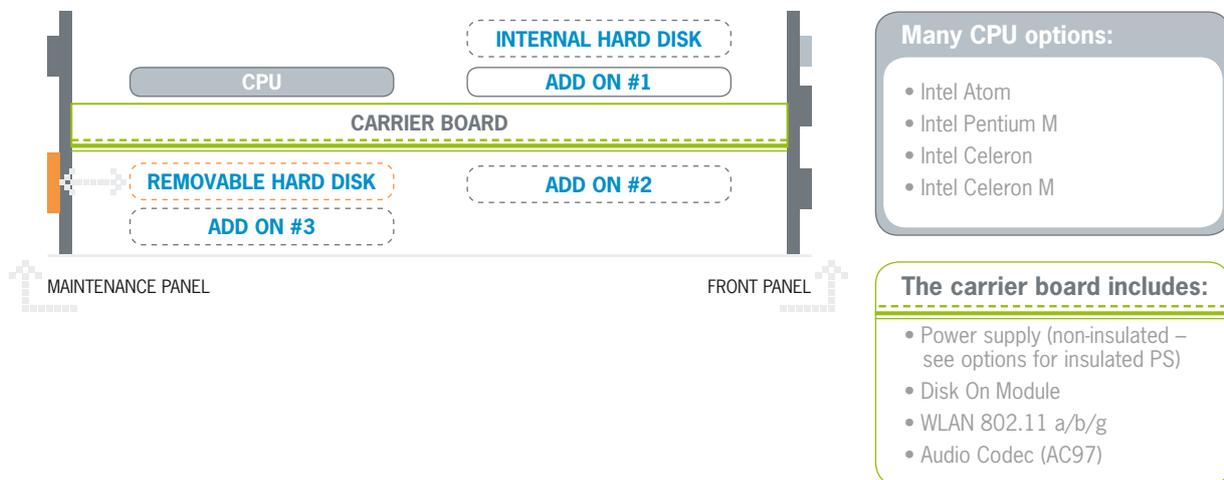
Example: Industrial Control



DuraCOR 1XXX

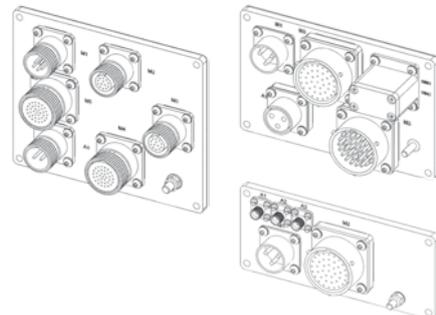
DuraCOR 1XXX Architecture

Three sizes with great expandability



Modules & Enclosure Profile

	Low	Mid	High
CPU	✓	✓	✓
Add-on #1	✓	✓	✓
Add-on #2	-	✓	✓
Add-on #3	-	✓	✓
Removable Hard Disk	-	-	✓
Internal Hard Disk	✓	✓	✓
Carrier Board	✓	✓	✓



Mix and match up to three expansion options (one per add-on slot):

Communication	IBIS Bus
	MVB Bus
	8x RS232/422/485 + 2x CAN 2.0B
	4x 10/100 Ethernet ports
	4x 10/100 Ethernet switch
Cellular networks and GPS	GPS + GSM-R
	GPS + GSM/GPRS
	GPS + UMTS/HSDPA/HSUPA/WCDMA
Audio/Video	4x Video inputs – JPEG 2000 Compression
	4x Video inputs – MPEG4 Compression
	Audio I/O Matrix

MVB Bus	MVB Device Class 3 (or 4 optional)
Serial communication	8x RS232/422/485 + 2x CAN 2.0B
GPS + GSM-R	12-channel low power GPS receiver Selex RGM101 GSM-R module Onboard or external 3V SIM-card interface
GPS + GSM/GPRS	12-channel low power GPS receiver 900/1800/1900MHz GPRS modem Onboard or external 3V SIM card
GPS + UMTS/HSDPA/ HSUPA/WCDMA	12-channel low power GPS receiver Tri-band HSUPA/UMTS/HSDPA: 850/1900/2100MHz Quad-band EDGE/GPRS/GSM: 850/900/1800/1900MHz Dual band CDMA: 800/1900MHz
JPEG 2000 Compression	4 MUX channels, each with 2 analog inputs JPEG2000 encoder module Motion detection
MPEG4 Compression	4 Analog video input channels 4 Audio input channels MPEG-4 (ISO/IEC 14496-2), MPEG-4 SOP @LEVEL3
Audio I/O Matrix	8 stereo audio input channels 8 differential analog output channels 2-channel mixer
Ethernet Ports	4 ports 10/100 Ethernet
Ethernet Switch	4 ports 10/100 Ethernet
Insulated Power Supply	24V DC, 50W 72V DC, 50W 110V DC, 50W

FAQ

I need a peripheral that it is not listed in the Options list. Is it possible to add it? The DuraCOR 1xxx is a very flexible product. If the peripheral you need is not available in the Options list, it might still be possible to add it; just call us to check it and receive a quote.

What type of connectors are used? The connectors on the front panel can be either metallic or plastic, in order to match the highest standards of reliability and durability.

What type of material is used for the enclosure? To ensure the highest reliability standard, the case is made with a lightweight aluminum alloy.

What types of power supply are available? The standard configuration provides a non-insulated, 9 to 36V DC power supply. There are three additional 50W insulated power supply options: 24V DC, 72V DC and 110V DC.

DynaVIS 10-00

RUGGED MOBILE DISPLAY COMPUTER



FEATURES

- Intel Atom processing
- 50-channel GPS, WiFi and 3G connectivity
- Gigabit Ethernet insulated I/O and serial interfaces
- Many power supply options

The DynaVIS 10-00 is a rugged mobile display computer that is compact, low power and offers high performance and wide ranging connectivity. It is a complete platform for any industrial application and also has many uses in transportation (EN50155 compliant). Powered by Intel Atom processor, the DynaVIS 10-00 offers 50-channel GPS, 5.7" touchscreen panel and a range of I/O interfaces and supports the Eurotech Everyware Software Framework (ESF) and Everyware Device Cloud (EDC) platform.

BENEFITS



- Rugged, compact and low power
- Easy-to-use touchscreen interface
- Wide ranging connectivity
- ESF allows for rapid application development
- EDC allows for connection to any business application

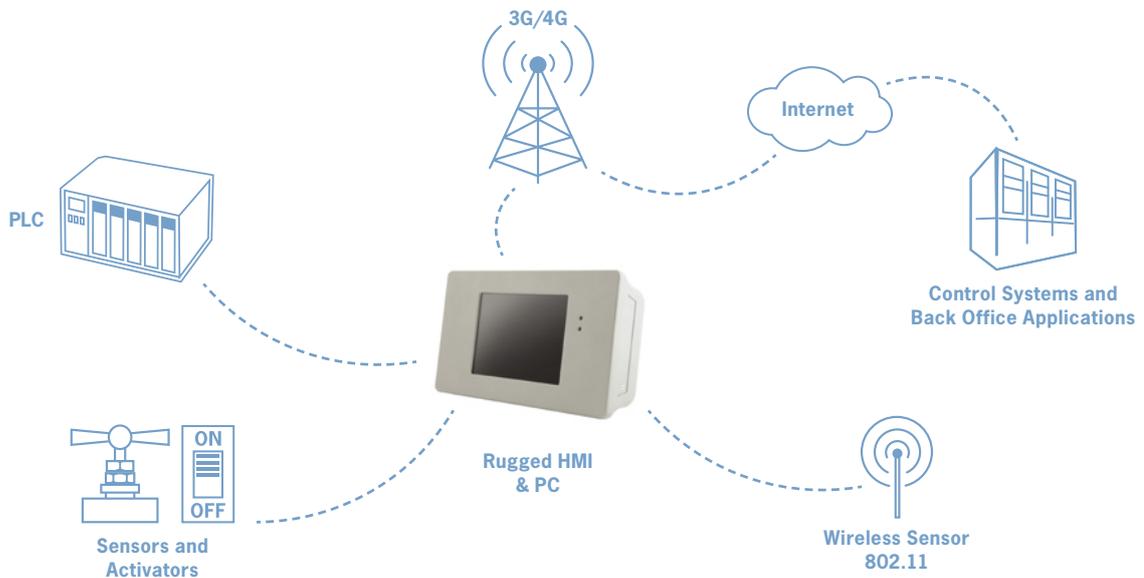
ACCESS & MACHINE CONTROL
GENERAL PURPOSE COMPUTING

MOBILE CONNECTED HMI
MOBILE M2M INTERFACE

ON-BOARD GATEWAY
DRIVER CONSOLE

APPLICATIONS

Example: Telemetry and Industrial Automation



GENERAL SPECIFICATIONS

CPU	Intel Atom 1.1GHz
RAM	RAM 512MB soldered on board
Storage	2GB FLASH disk SSD soldered 1 Removable microSDHC for data storage
Display	5.7"; VGA 640 X 480 with touch screen Colors: 262K; Brightness: 280 cd/m ² ; Contrast ratio: 350:1, Viewing angle: +/-70°, Antiglare surface, automatic contrast adjust via light sensor
GPS	GPS 50 channels (model UBlox LEA-5) Galileo ready
Modem	HSUPA/HSDPA/UMTS/GPRS modem (optional)
WiFi	WiFi 802.11 a/b/g/n
Main Interfaces	MIL qualified connectors (MIL-DTL-26482 type connectors) M1: Power IN key input M2: 1x USB 2.0 port (maintenance) 5x Optoinsulated digital output 10x Optoinsulated digital input 1x Optoinsulated digital input odometer Audio ports: 1x Microphone stereo input 2x Audio speakers output (L+R) 1x Stereo headphone output M3: 2x Gigabit Ethernet ports 1x Optoinsulated RS232 serial port 1x Optoinsulated RS232/422/485 configurable serial port 1x USB 2.0 (maintenance)
Maintenance Interface	1x serial interface RS232, 1x SIM card slot, 2x USB (mouse and keyboard) 1x microSDHC slot, 2x LED Power good and Power on, 1x VGA output, Reset pushbutton
Power Supply	10.5 to 36V DC (Optionally 110 and 72 nominal V DC)
Power Consumption	19W
Dimensions	230 x 140 x 61,7mm (9.05" x 5.51" x 2.42")
Operating Temperature	-25°C to +55°C EN50155 Class T1 (70°C for 10 min) (-13°F to +131°F EN50155 Class T1 (158°F for 10 min))
OS Support	Wind River Linux, Windows Embedded
Certifications	IP65, EN50155 (Railway applications), EN61373 (Vibrations & Shocks), EN60950 (Safety), EN61000 (Burst Immunity test), EN60068 (Temperature test), DIN-5510-2 (German Fire and Smoke) and ISO-11170 (Italian Fire and Smoke), Load Dump (for 24V In): ISO 7637-2 (2004-06)
Weight	1.5Kg (3.31lb)
Enclosure	Light and resistant aluminium alloy

FAQ

How can I mount the DynaVIS 10-00? The DynaVIS 10-00 can be simply mounted thanks to the VESA 75 hole patten.

What type of accessories are available? The CBL-0402-00 is a cable kit that provides PC-like headers for the interfaces. It is a bundle of three cables:

- Power supply and Key IN – to M1
- Digital I/O, Odometer, USB2 and Audio – to M2
- Gigabit, USB1, SER1, SER2, and CAN – to M3

STACK 104

RUGGED MODULAR SYSTEM

FEATURES



- Modular flexible design
- Wide range of CPU, peripheral and power supply modules available
- Supports Windows Embedded, or Embedded Linux OS
- Multiple I/O including Fast Ethernet, CAN Bus and high speed USB

STACK 104 is a rugged, fanless, lightweight and highly flexible modular system. Its stackable modules have a lightweight ZAMAC (Zinc, Aluminium, Magnesium and Copper alloy) frame that is resistant to harsh conditions, temperature changes and high vibration levels. The system has a wide range of control and communication applications and is also ideal for use on many types of vehicles since it meets the high performance and reliability standards required for rail, road and military applications. High density connectors ensure that STACK 104 gives optimum performance in applications that require high I/O density and high levels of insulation.

BENEFITS



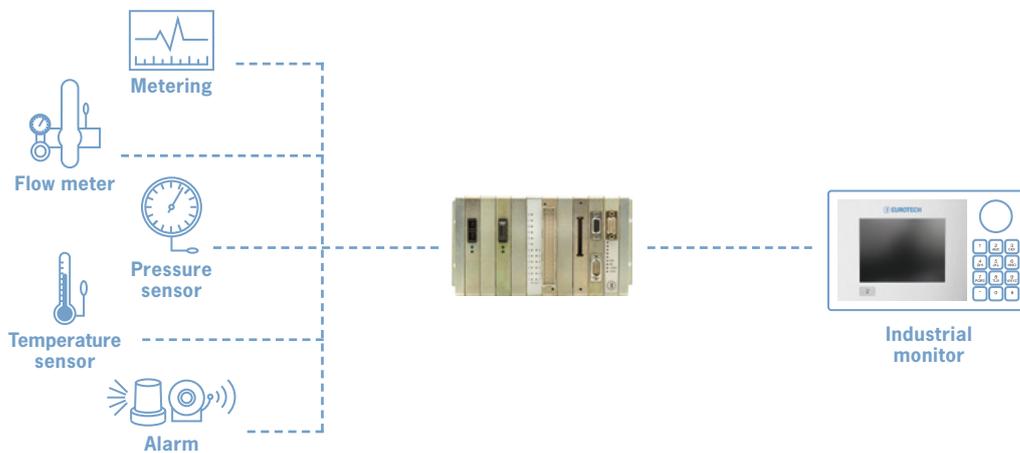
- Rugged and reliable under extreme climate and working conditions
- High degree of insulation
- Highly flexible and can be tailored to application requirements
- Fast and easy to install

I/O INTENSIVE MOBILE
COMPUTING
HIGH VOLTAGE SYSTEMS

ISOLATED CONTROLLERS
HIGH AVAILABILITY SYSTEMS
VIDEO SURVEILLANCE

APPLICATIONS

Example: Industrial Process Control

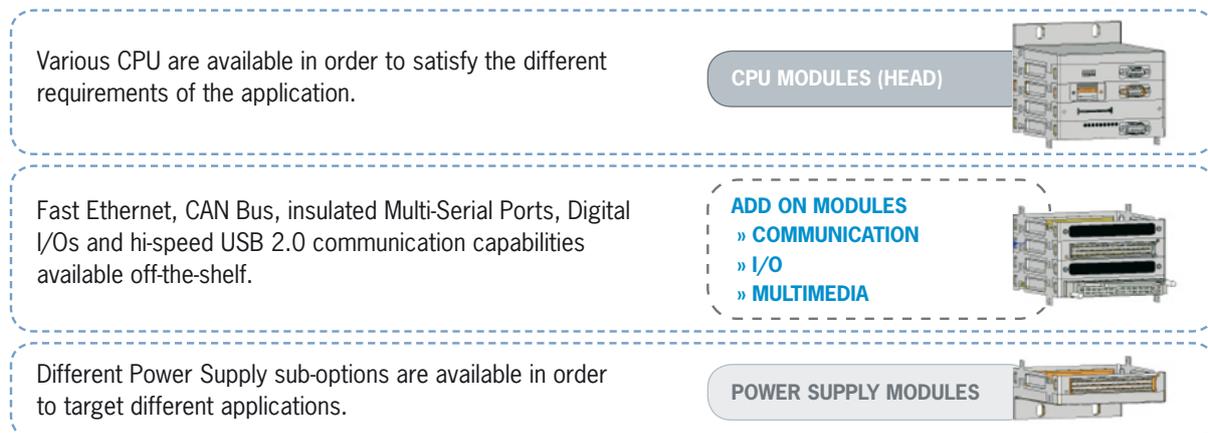


GENERAL SPECIFICATIONS

CPU Modules	CPU4 – VORTEX 486	CPU6 – ISIS
	Low power/low consumption Vortex 86DX 800MHz 256MB DDR 2 1x VGA 1x 10/100 Ethernet 1x RS232 3x TTL 4x USB 1x Parallel 1x Compact FLASH 1x PS/2	High performance Intel Atom up to 1.6GHz WiFi GPS SVGA Serial ports USB
Dimensions	116 x 111mm (4.56" x 4.37") – height depends on module (Typ. 16.81mm (0.66") for expansion modules)	
Power supply	24-48V DC - 25W - Insulated 72-110V DC - 25W - Insulated 24-48/72/110/220V DC - 30W - Insulated	
Operating temperature	-25°C to +70°C (-13°F to +158°F)	
OS Support	DOS, Windows Embedded, Embedded Linux	
Certifications	EN 50155, EN 60250	

STACK 104 Architecture

A system consists of three subsections: the CPU section, the Add-on section and the power supply section.



FAQ

How flexible is the Stack 104? Eurotech provides a wide range of CPU modules, add-on modules as well as a power supply modules that can be combined into a complete system. Also, our team will support you in building up the system; call us for more information.

Which are the target applications for this system? The system is intended to be deployed in harsh environments.

ZyWAN G9

ROBUST CELLULAR ROUTER



FEATURES

- Ready to use Linux router
- Cellular, WiFi and GPS capabilities
- Dual Ethernet and 3 serial ports
- OTA (Over-the Air) web GUI

The ZyWAN G9 is a rugged cellular router providing real-time access to any Ethernet, 802.11 or serial device for both mobile and fixed data applications. Offering secure and robust connection to CDMA, EVDO, GSM/GPRS, and 3G cellular networks, the ZyWAN G9 is a fully configurable embedded Linux router enabling firewalling, DHCP, DNS and NAT. A GPS receiver provides sophisticated tracking and mapping applications and a web GUI interface allows settings to be easily changed locally or over the air. The ZyWAN G9 is an application-ready platform and provides a programming environment for Embedded Linux, J2ME (IBM J9) and OSGI (Eclipse). Customers can tailor applications to their specific requirements or add value to the standard configuration.

BENEFITS

- Customizable, programmable
- Rugged design
- Comprehensive communications and connectivity
- Flexible, robust and secure wireless solution
- Certified to operate on EU and US carrier networks

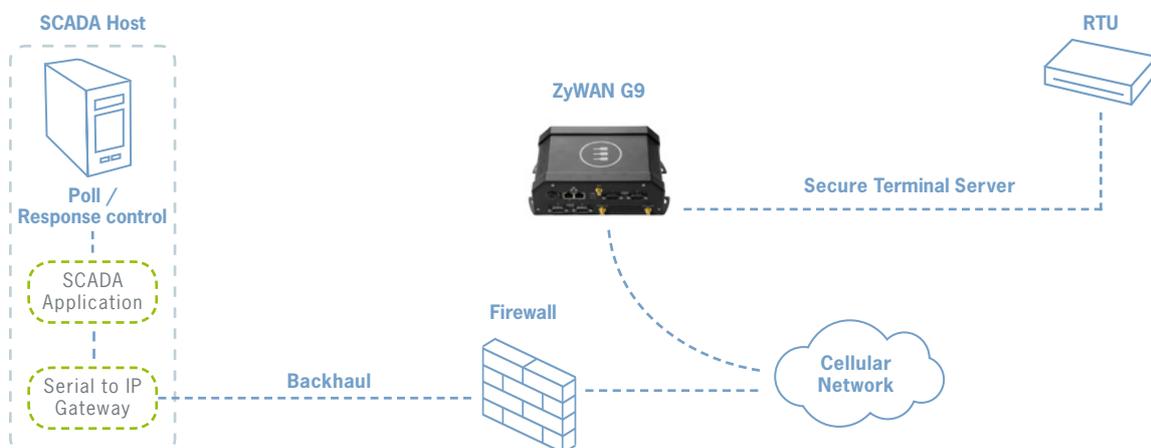
FIELD FORCE AUTOMATION
UTILITIES
OIL AND GAS

TELEMETRY OF REMOTE SYSTEMS
ATM, KIOSKS AND POS
PUBLIC SAFETY AND FIRST RESPONDERS

FLEET MANAGEMENT

APPLICATIONS

Example: Utility SCADA Application - Cellular Router



GENERAL SPECIFICATIONS

Processor	Marvell PXA 270 @ 520MHz
Memory	64MB RAM, 64MB FLASH
Operation System	Linux Eurotech Optimized kernel
I/O	2x Ethernet 10/100Mbps 2x USB 1.1 2x RS-232 serial ports 1x RS-232/422/485 serial port
WLAN	IEEE 802.11b, SMA Connector (optional)
WWAN	3G, EVDO, SMA Connector
GPS	Very high sensitivity 12 channel GPS receiver
Router Functions	Virtual Private Network (VPN) Support: IPSec, OpenVPN, and VPNc DHCP Routing Firewalling Security AES,3DES, SSH, etc. NAT (Network Address Translation) Terminal server and client DNS client
Video Out	VGA and touch screen interface (optional)
Expansion	I/O Expansion bus
Power supply	Input power: 10 - 30V DC Over and reverse voltage protection: 100V DC Ignition sense input: 12V DC protected Power: 8W
Dimensions	238 x 137 x 65mm (9.37" x 5.94" x 2.56") (L x W x H)
Operating Temperature	-20°C to +65°C (-4°F to +149°F) (without 802.11), 0°C to +60°C (32°F to +140°F) (with 802.11)
Humidity	95% relative humidity non condensing
Compliance	FCC/CE/PCTRB
Weight	Approx 1.4 Kg (3.00 lbs)

FAQ

Why do I need a router? You need a router in applications in which you have to connect two different networks. For example the ZyWAN can connect a local moving network with a back office. This kind of installation provides a secure, reliable and bidirectional channel between the moving network and the back office where the business application runs. Any device can be accessed through this secure connection to better manage assets and business processes.

What can I connect to the ZyWAN? You can connect a broad range of devices though the various interfaces offered on the ZyWAN that include USB, Ethernet, both RS232 or RS485 serial communications and a WLAN interface. Providing this flexibility is critical in meeting the demands of most applications. For instance, in a mobile asset application, the ZyWAN connects a printer through a serial port or a USB port, a temperature sensor through another serial port, a flow meter through an RS485 port, WiFi to a handheld while managing a cellular connection and receiving data from to the engine diagnostics port.

Can I access a local serial port from my back office? Yes, this is a functionality that is available and easily configured into the GUI. This functionality is described in routing terms as a terminal server that creates a secure, pass-through connection with the serial port like you are locally connected to the physical port. Thus, if you have an application that needs to connect to a remote device for data or diagnostics, the ZyWAN can be easily deployed and configured.

PCN-1001

PEOPLE COUNTER



FEATURES

- Contactless stereoscopic vision detection
- EN50155 qualified
- IP65 sealed magnesium enclosure
- RS485 interface, 2+2 digital I/O, USB (service)
- ESF enabled and EDC ready

The PCN-1001 is a robust, lightweight autonomous device that analyzes the height, shape and direction of people or objects passing through its field of view. It accurately tracks people entering or leaving public locations such as shops, theatres, museums, stadiums, factories and businesses. It is also widely used as an APC (Automatic Passenger Counting) system in rail and road transport applications. Meeting EN50155 class T1, 204/104/EC standard, the device provides managers and operators with accurate data on incoming and outgoing movements and is natively integrated with Eurotech Everyware Software Framework (ESF) devices to reduce time required to develop a complete monitoring system. Connecting PCN-1001 systems through the Everyware Device Cloud platform lets business owners monitor and analyze data in real time.

BENEFITS

- High accuracy bidirectional counting
- Operates in any lighting conditions
- Robust, lightweight and reliable
- Perfect for outdoor environments
- Discreet and easy to install
- User friendly configuration software
- Fast integration with back office systems such as security



DATA COLLECTION IN PUBLIC SPACES
REAL TIME STAFF PLANNING AND
ENTRY MONITORING
PASSENGER MONITORING

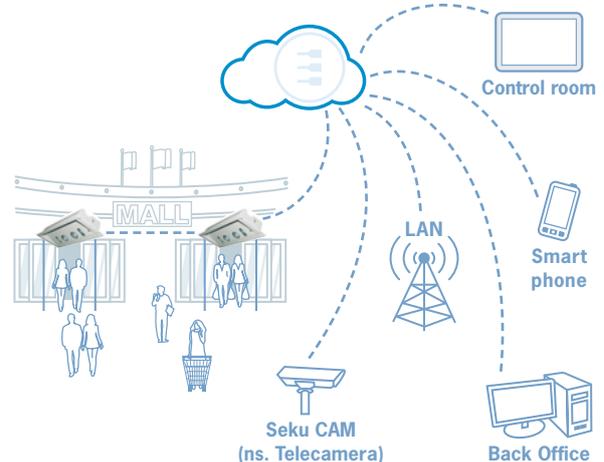
OPTIMIZING CUSTOMER SERVICES
OPTIMIZING USE OF RESOURCES

APPLICATIONS

Example: PCN-1001 configurations



Example: PCN-1001 in a mall



GENERAL SPECIFICATIONS

Application	Automatic people counting solution
Technology	Contactless stereoscopic vision detection
Interfaces	RS485 interface, 2+2 digital I/O USB (service)
Mechanical	IP65 sealed magnesium enclosure
PSU	DC/DC 9-32V DC
Standards	EN50155 class T1, 2004/104/EC
Accessories	Starter Kit, configuration software
External plate	230 x 100 x 30mm (9.05" x 3.93" x 0.12")
Dimensions	PCN-1001 Frame Height 100mm (3.93") Width 230mm (9.05") Depth 3mm (0.12") Required cut out Height 82mm (3.23") Width 208.5mm (8.21") Depth 41.5 to 70mm (1.63" to 2.75")
Operating Temperature	-25 to +55°C (+70°C for 10 minutes) (-13°F to +131°F) (+158°F for 10min.)

FAQ

Which kind of vision technology does the PCN-1001 use? The PCN-1001 combines a stereoscopic vision and an infrared system to track and count people in its field of view.

How can I interface the PCN-1001 with a separate PC? You can interface the PCN-1001 through a RS485 connection using a simple protocol. For your convenience the PCN-1001 is natively integrated with our ESF based devices so you do not have to spend time on the software integration side and you can concentrate on your business application.

Does the PCN-1001 have digital I/O inputs? Yes, it has 2 digital I/Os input that can be connected to door sensors in order to activate or stop the counting process only under certain conditions (i.e., when the doors are closed the counting process can be stopped).

The PCN-1001 has a stereoscopic vision. What about privacy? The PCN-1001 does not retain the images, which are processed and discarded immediately; moreover this is a device that processes movement, and it is not an imaging device like a camera.

Zypad BR2000

LIGHTWEIGHT WEARABLE OR VEHICLE MOUNTED COMPUTER



FEATURES

- Lightweight and battery operated device running Intel Atom
- Integrated wired and wireless communications
- Durable IP67 enclosure
- Extended temperature range
- Supports major operating systems
- Rugged quick disconnect mount options

The versatile Zypad BR2000 is a rugged, ultra low power, small form factor computer that can be worn or vehicle mounted. It is ideally suited for extreme working environments, with high resistance to temperature, impact, dust, water and contaminants. The Zypad BR2000 is used in an extensive range of industrial, mining, transportation, defense and healthcare applications. Powered by the high performance Intel Atom CPU, the computer includes high-speed wired and wireless communications, built-in GPS tracking, a broad range of I/O interfaces, support for major operating systems and is enabled for Eurotech Everywhere Software Framework (ESF) and the Everywhere Device Cloud (EDC) environment.

BENEFITS



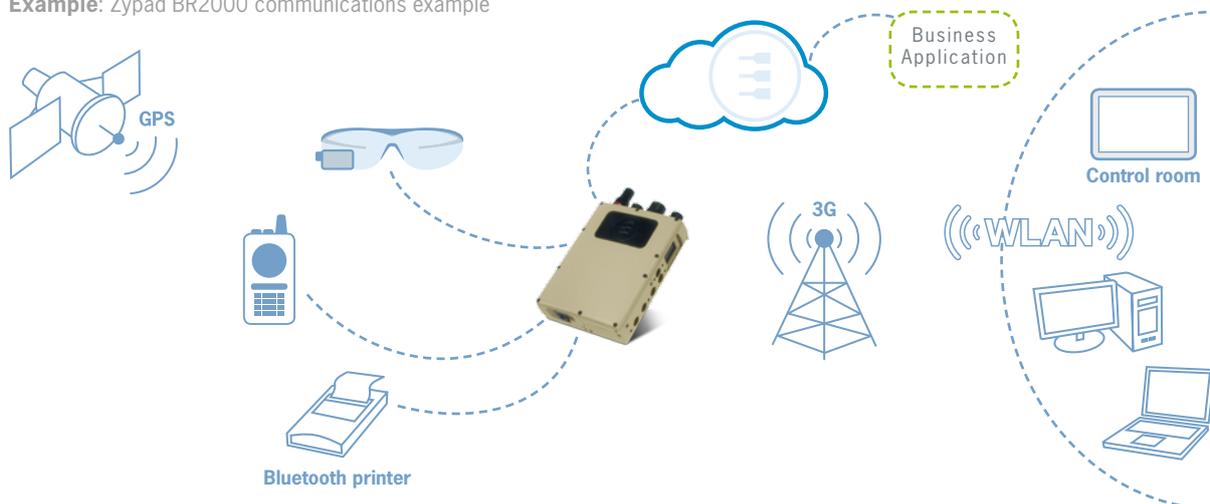
- Lightweight and totally mobile
- Rugged and resistant to hostile environments
- Ultra low power
- Battery operation up to 6 hours
- ESF allows for rapid application development
- EDC allows for connection to any business application

INDUTRIAL
OIL AND GAS
HARSH ENVIRONMENTS

SECURITY
DEFENSE
MINING

APPLICATIONS

Example: Zypad BR2000 communications example



GENERAL SPECIFICATIONS

Processor	Intel Atom E660T @ 1.3 GHz CPU Intel PCH EG20T
Memory	1GB RAM (up to 2GB supported) High-capacity Compact Flash (with option for Secure Erase) Up to 32GB Onboard Flash
Display	1x 2D/3D VGA display output (LVDS optional) 1x Composite video (NTSC/PAL) output
LED	Alarm Power Battery level
Audio	Audio microphone and headset output
I/O	1 x RS-232/422 (full port) 2x RS-232 (Tx/Rx) 1x 10/100/1000BASE-T Ethernet interface 6x USB 2.0 ports
WPAN	Bluetooth (Class 1, EDR up to 2-3Mbps) with integrated antenna
WLAN	Integrated IEEE 802.11 b/g/n with integrated antenna
Expansion slots	Expansion device support via USB, PCIe, Digital IO, RS-232/422 (accessible in connector interface panel)
User Controls	1x power on/off button 4x Programmable keypad buttons (up, down, select, back) Configuration control, maintenance display Concealed emergency erase button
Operating system	Windows Windows Embedded Wind River Linux
Weight	1200g (2.5lb)
Dimensions	138 x 107 x 36mm
Metal	Aluminum alloy, corrosion resistant
Connectors	Miniature military-grade push-pull circular, single-hand blindmate
Mounting	Screw-down attach points for direct fixed mount or quick release brackets
IP rating	IEC 60529 IP67-class enclosure

Zypad BR2000

LIGHTWEIGHT WEARABLE OR VEHICLE MOUNTED COMPUTER

GENERAL SPECIFICATIONS

POWER

Power consumption	5W average power consumption (typical use case)
Battery	Up to 6 hours of battery pack runtime (25W battery pack capacity) Internal backup battery for main battery fast swap Field replaceable battery pack option: Li.Ion rechargeable/disposable CRI23
DC power range	External DC power input range from 9-16V DC

AGENCY APPROVALS

Emissions/Immunity	IEC 61000-4-2 EMC-Part 4-2 EN 55022/CISPR22 Immunity and Emissions MIL-STD-461F for conducted and radiated emissions/susceptibility
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ACCESSORIES

Battery	Quad battery charger Additional batteries
Barcode	1D/2D barcode reader

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating: -20° to 60°C Storage: -20° to 85°C (without battery)
Humidity	95% non-condensing
IP Rating	IP67
Shock	Operating shock: 40g, 11ms, 3 pos/neg per axis, 18 terminal peak sawtooth pulses Crash safety shock: 75g, 11ms, 2 pos/neg per axis, total 12 sawtooth pulses
Vibration	Random vibration: SAE J1455-2006, vehicle profile; MIL-STD-810G (Method 514)
Water and dust	Water immersion: 1 meter submersion, 30 minutes (similar to IP67) Dust ingress: designed for compliance with method 510.4, no dust ingress
Operational altitude	Operational altitude: sea level to ~20,000 ft (~6,096 meters)

FAQ

What are the different wearable or mounting options for the BR2000? As a wearable computer, the BR2000 can be worn on a vest, utility belt, in a pocket or backpack. The unit can also be mounted onto a vehicle or an aircraft. This flexibility is achieved through screw-down attachment points for direct fixed-mount or quick-release brackets.

What does IP67 mean? The IP Code (or Ingress Protection Rating) consists of the letters IP followed by two digits or one digit and one letter and an optional letter. The IP Code classifies and rates the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in mechanical casings and with electrical enclosures. In our case IP67 means:

- No ingress of dust; complete protection against contact
- Up to 1m of submersion

Why this IP rating is very important in harsh environments? Typically these kind of environments are intrinsically dangerous for the user. In order to safely operate in, the user doesn't have time to worry about treating the device with care. The BR2000 is a perfect fit for this kind of application, since worn on the body it is close to the user and the rugged design prevents it from being easily damaged or broken.



Zypad WL15XX

WRIST WEARABLE RUGGED COMPUTER



FEATURES

- All day battery life
- Lightweight
- Hands-free operation
- Built in wireless communications
- Battery hot-swap with data security
- Multiple I/O interfaces

The Zypad WL 15XX is a robust, lightweight and versatile wrist-wearable computer that allows the user to access comprehensive communication resources while remaining fully mobile. It has numerous potential applications in areas such as logistics, law enforcement, transportation, defence, homeland security, healthcare and the emergency search and rescue services. The device is IP54 rated and offers powerful wireless capabilities including built in GPS antenna and a range of I/O interfaces including USB, MicroSD, touchscreen, audio and barcode reader. Battery life will cover a typical work day shift and the computer's hot-swap feature allows data to be fully protected if an unexpected battery swap is required.

BENEFITS



- Powerful communications functionality to send and receive information
- Easy-to-use touchscreen interface
- Total user mobility
- Lightweight and comfortable to wear

FIRST RESPONDERS
OIL AND GAS
HARSH ENVIRONMENTS

EMERGENCY SERVICES
SECURITY
DEFENSE

FOREST SERVICES
LAW ENFORCEMENT
LOGISTICS

APPLICATIONS

Example: WL 15XX communications



GENERAL SPECIFICATIONS

Processor	Marvell PXA320
Memory	128MB mobile SDRAM 128MB mobile FLASH
Display	3.5" TFT display at QVGA (320 x 240 pxl) resolution Resistive touchscreen LED backlight Ambient light sensor (controls backlight) Accelerometer
LED	1x Power on/ Charge 1x Bluetooth activity 1x WiFi/Cellular activity
Audio	Integrated microphone Mono-audio speaker Audio-in using 2.5" audio jack Bluetooth audio I/O PCM codec
I/O	1x USB device port (full speed) 1x USB host port (full speed)
WPAN	Bluetooth (Class 1) with integrated antenna
WLAN	Integrated IEEE 802.11b/g with integrated antenna
WWAN	GPS/GPRS/CDMA/EDGE, UTMS, HSDPA radio module support (optional, exclusive of each other) with integrated antenna User-accessible SIM card slot
Other devices	ZRS-2D ring scanner support Barcode reader and imager with view and capture capabilities (optional, factory installed)
Expansion slots	1x microSD memory card slot
Keyboard	12x keys 1x power on/off key Programmable keys with built-in backlight
Pen device	Stylus
Operating system	Windows Embedded
Application Development System	Windows CE
Weight	450g including battery (1lb)

Zypad WL15XX

WRIST WEARABLE RUGGED COMPUTER

GENERAL SPECIFICATIONS

BATTERY PACK

Power	3.7V Li-Ion interchangeable (hot swappable) battery pack Hardware and software advanced power management
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AGENCY APPROVALS

Emissions/Immunity	EN55022
Immunity	EN55024
Power supply	EN61000-3-2 EN61000-3-3
FCC	FCC Part 15 Part B Canadian ICES-003 (test report based on FCC testing)
Safety	EN60950-1 (European safety) UL 60950-1 (US safety) CSA C22.2 Number 60950-1 (Canadian safety)

ACCESSORIES

Battery	Quad battery charger Additional batteries
Barcode reader	1D/2D barcode reader

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating: -20° to 50°C Storage: -30° to 50°C
Humidity	95% non-condensing
IP Rating	IP54

FAQ

What are the specific benefits of the Zypad WL15XX over other wearable computers? In general, Eurotech's Zypad family provides a board range of wearable devices that can be chosen depending on the applications. The Zypad WL15XX is especially useful in cases where the user is looking for a wrist-worn computer and needs extensive wireless communications protocols.

What does IP54 mean? The IP Code (or Ingress Protection Rating) consists of the letters IP followed by two digits or one digit and one letter and an optional letter. The IP Code classifies and rates the degrees of protection provided against the intrusion of solid objects, dust, accidental contact, and water in mechanical casings and with electrical enclosures. In our case IP54 means:

- Protected against dust, limited ingress

- Protected against water spray from all directions

What type of barcode scanners can I use with the Zypad WL15XX? The Zypad WL15XX supports an external ZRS-2D Ring Scanner, available from Eurotech, or any integrated barcode reader which is available as a configuration option. To use the ZRS-2D, simply connect the ringer scanner to the USB host port of the Zypad and the system will automatically recognize the scanner without any additional configuration steps required.

Do I have to buy the unit and cables separately or is there a kit available? Eurotech offers the Zypad WL15XX complete with all necessary cables and documentation. In addition, the kit comes with the unit and wristbands to get you started right away as well as storage cards. Additional accessories can be purchased to offer more flexibility.

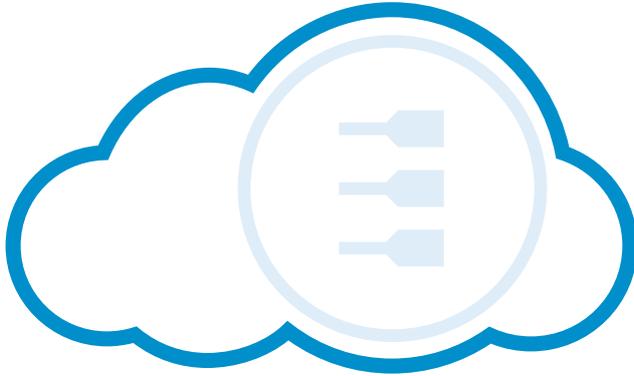
How can I connect a Ethernet based device to the Zypad WL15XX? You can simply use one of the USB ports available and an adapter. The device natively supports the most common USB to Ethernet adapters that are on the market.

EVERYWARE DEVICE CLOUD 2.0

EUROTECH CLOUD SOLUTION

FEATURES

- Immediate access to world-class communication solutions, services and technology
- Scalability (Size doesn't matter)
- Instant financial benefits
- Reduce risk and future proof
- Real-time data analysis
- Data agnostic platform



Plug devices into the cloud...
Faster than ever before.

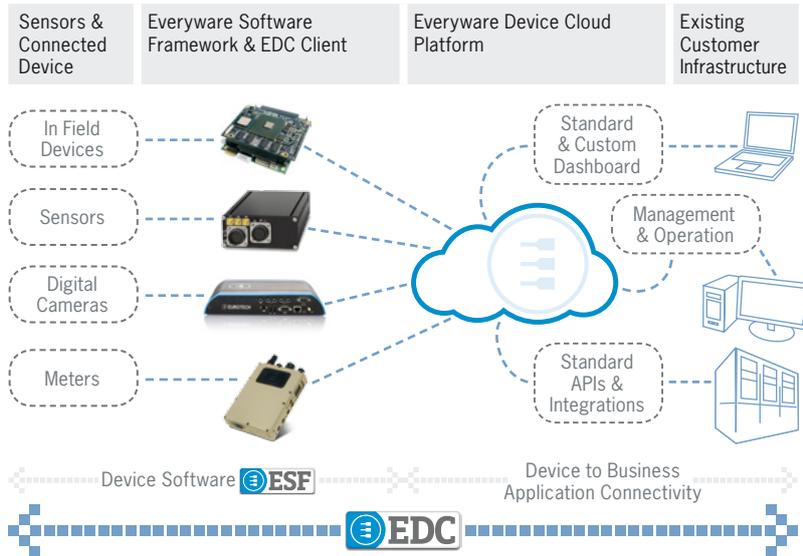
In today's business it becomes increasingly important to have constant visibility of assets and processes, anytime, anywhere. Whether your business relies on knowing the speed of its wind turbines, the temperature inside a silo thousands of miles away or the amount of petrol flowing through a transoceanic pipeline, you rely on data from intelligent devices.

In order to make this Machine-to-Machine (M2M) communication scenario possible in an affordable, secure and reliable way, Eurotech offers a proven set of software building blocks seamlessly integrated between each other that allow any device to connect to the cloud in order to provide all the needed services.





Everyware Device Cloud (EDC) offering unlocks your M2M potential. Through EDC, customers can reduce the time, cost, and complexity of implementing, managing, and scaling their M2M device networks and using the device data in the business application.



FEATURES

Everyware Device Cloud gives you the full package:

- A broad portfolio of purpose-built embedded hardware
- Wired and wireless connectivity solutions
- An M2M platform to immediately deliver data from the field to downstream applications and business processes, dashboards, and reports
- Real-time analytics over device data



Everyware Software Framework (ESF) is a comprehensive and application-oriented software framework based on Java and OSGi framework software technologies. It allows developers and project managers to deliver complete, hardware-independent M2M applications quickly and effectively. Fully integrated within ESF, the Everyware Device Cloud Client provides instant connectivity with Eurotech cutting edge multiprotocol M2M Cloud platform. Just connect and immediately deploy your M2M business services for unlimited users and interface with virtually any business application through simple and effective APIs. EDC and ESF help companies focus on their core competencies, by supplying a set of highly modular, common building blocks.



Software portability across ESF Enabled Platforms



FEATURES

Leveraging this comprehensive offer ensures:

- Shorter development times/faster time to market
- Portable, robust code/higher quality software
- Less use of resources/reduced development costs
- More deterministic project execution/less risk
- Instant M2M Cloud platform connectivity
- Focus on the real values that make a customer application successful

Eurotech building blocks main features

Just add this

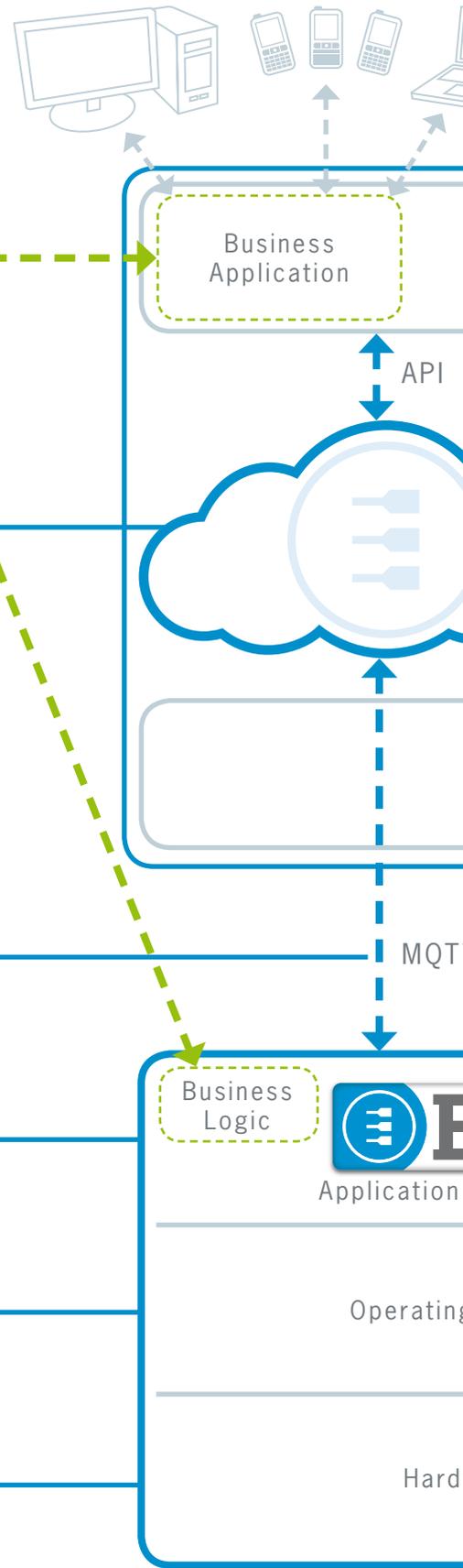
- REST APIs
- Multi-tenant
- Free Form DB
- Real-time analytics
- Platform console
- Load Balanced
- Geogr. Balanced



- Publish & Subscribe
- Session aware
- WAN optimized

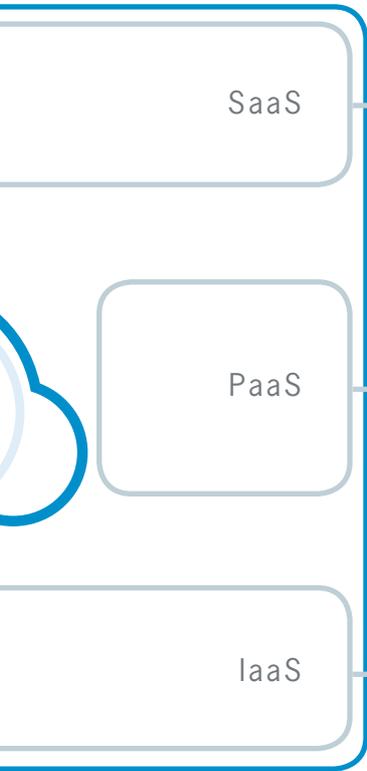
- EDC client Cloud Connector
- Java Virtual Machine
- OSGI Frameworks
- Application Environment Frameworks and Libraries

Optimized Operating Systems

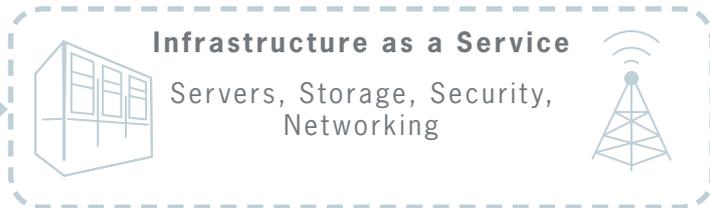




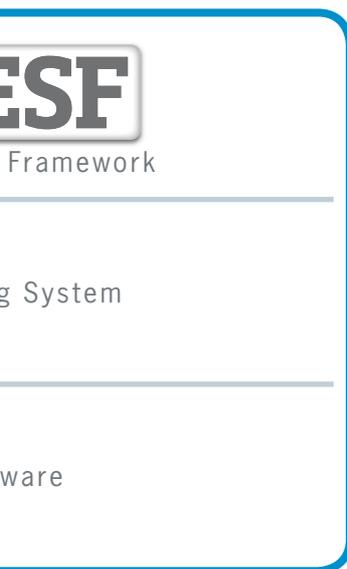
Cloud based



Third party elements



T >> M2M optimal Communication Protocol



M2M Embedded Device Building Blocks

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