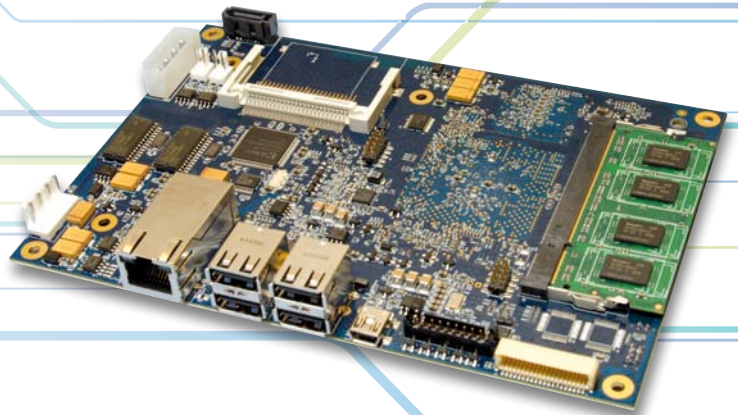# VECTOR

- **Fanless EPIC form factor**
- **Wide range input power supply**
- **Rich set of expansion buses**
- **Multiple boot options**
- **Industrial and commercial temperature**

ESF Everyware Software Framework

EDC Everyware Device Cloud

FEATURES

Intel Architecture – Vector is based on the powerful Intel Atom X5xx processor family with CPU speeds from 1.1GHz up to 1.6GHz and low heat dissipation.

Low Power Design – Eurotech's low power design expertise allows Vector to deliver extensive capability with 7W typical of power consumption.

Expandability – Expansion buses such as MiniPCIe, SATA, SD, CF, or SSD allow flexibility in boot-media options and configurations.

Application-ready Development Kits – Eurotech's full-featured and application-ready development kits help customer begin application development quickly.

- **Medical**
- **Industrial**
- **Transportation**
- **Infotainment**

Eurotech's Vector delivers the power of Intel Atom in a low-cost, integrated single board computer (SBC) design. Supporting CPU speeds up to 1.6GHz and a rich suite of multimedia and I/O capabilities, the Vector is a flexible embedded solution for all markets where low power and high performance in a robust SBC design are a requirement.

Vector is available in a range of standardized configurations which support a comprehensive set of I/O connections including Gigabit Ethernet, dual CAN 2.0, high speed USB host and client ports, serial ports, and much more. A wide range PSU makes it ideal for industrial or automotive applications. Expansion interfaces such as Mini-PCIe, SATA, CompactFlash®, and on-board SSD allow flexibility in boot options and configuration choices. The Vector supports commercial and industrial temperatures and, with no fans, is extremely reliable and efficient.

Vector runs Windows Embedded Standard, Windows CE, or Wind River Linux. Eurotech's Everyware™ Software Framework (ESF), is available on Vector, allowing OEMs to focus on application-specific development. Optionally, Eurotech delivers also industry-specific ESF bundles, helping bring designs to market quickly with optimized costs.

Vector also supports Everyware Device Cloud (EDC), Eurotech end-to-end solution to bring data from distributed devices to business applications.

EUROTECH

Imagine. Build. Succeed.

System Architecture

PROCESSOR	• Intel® Atom™ Z5xxP • 1.1GHz to 1.6GHz CPU Speed • Intel® System Controller Hub US15WP (SCH US15WP)
RAM MEMORY	512MB / 2GB DDR2 SDRAM SODIMM
SOLID STATE DISK	Optional on-board 2GB/4GB/8GB support
OPERATING SYSTEM	• Windows Embedded Standard • Windows CE • Wind River Linux • Other RTOS (contact for details)
EXPANSION INTERFACES	• 1x MiniPCIe socket • CompactFlash socket • Optional SecureDigital interface (mutually exclusive of CompactFlash socket) • Optional SATA controller • Optional on-board Solid State Disk 2GB/4GB/8GB
NETWORK	1x 10/100/1000 BASE-T Ethernet interface with RJ-45 connector
SERIAL	• 1x configurable RS-232/485 serial port • Optional 1x RS-232/485 serial port
USB	• 5x USB 2.0 host ports • 1x USB 2.0 client port (configurable as host port)
CAN	2x CAN 2.0 interfaces
I2C	1x I2C interface
GPIO	18x GPIO/8x8 keyboard scanning inputs
ANALOG	2x Analog inputs
VIDEO	• Dual display support • 1x VGA interface • 1x LVDS interface with 18-bit or 24-bit color support • Optional S-Video interface • 4/5/8-wire touchscreen • Backlight inverter
AUDIO	Intel® High Definition Audio with: • 2W amplified speaker output • Microphone input • Line input
TPM	Optional Trusted Platform Module
RTC	Battery backed Real Time Clock
POWER	• 7 to 25 VDC input
TEMPERATURE	Operating: Up to -40ºC to +85ºC (-40ºF to +185ºF)
PHYSICAL	• Dimensions: EPIC form factor with 4.5 x 6.5 inches (115 x 165 mm)
ORDER CODES	• 900124-7001R: Vector SBC, Intel Atom Z510P, 1.1GHz, C Temp, 1x GigE, 1x CF, 2x Serial, 5x USB host, 1x USB client, 1x PCIe, LVDS • 900124-7003R: Vector SBC, Intel Atom Z530P, 1.6GHz, C Temp, 1x GigE, 1x CF, 1x Serial, 5xUSB host, 1x USB client, 1x PCIe, 2x CAN, 1x SATA, LVDS, Touchscreen, Audio, VGA • 900124-7004R: Vector SBC, Intel Atom Z520PT, 1.3GHz, I Temp, 1x GigE, 1x CF, 1x Serial, 5x USB host,1x USB client, 1x PCIe, 2x CAN, 1x SATA, LVDS, Touchscreen, Audio • VEC7000: Vector SBC Development Kit, Intel Atom Z520P, 1.6GHz, C Temp, GigE, CF, Serial, USB, PCIe, CAN, SATA, LVDS display, Touchscreen, Audio, VGA, with OS WES, Win CE, and Wind River Linux

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