Catalyst TC

Catalyst Module - Intel Atom E6xx

- **Highly Integrated Intel® Atom™ E6xx**
- **Small, Fanless 67x100mm Form Factor**
- **Ultra Low Power**
- **Gb Ethernet, CAN bus, USB**
- **LVDS and SVDO Graphical Interfaces**
- **Extended Temperature**
- **Professional Servicess**

Features

Powerful - Based on the Intel Atom E6xx series, the Catalyst TC brings out a long list of I/O and multimedia capabilities directly onto the module for truly integrated embedded design capabilities
Small - The Catalyst TC is part of the Catalyst line (67x100mm format) of CoM products for logical migration in next generation designs
Ultra Low Power - Eurotech's low power design expertise is brought out with the Catalyst TC, which consumes between 2-3W and enables rugged fanless designs
Extensive I/O - With the Catalyst TC, embedded designs have direct access to I/O capabilities on the module such as Gigabit Ethernet, CAN bus, USB 2.0, and serial ports
Extended Temperature - Supports wide operating temperature (-40 to +85°C), conformal coating options, and soldered memory
Professional Services - Cuts Time-To-Market with Eurotech Professional Services, which include deep module customization, BIOS personalization, carrier board and system design and production

Description

The Catalyst TC is a low-power, high performance Small Form Factor CoM, based on the Intel Atom E6xx processors family.
Targeted for embedded devices which require extremely power-stingy and small designs, the Catalyst TC leverages the high level of integration offered by the Atom E6xx processor series to deliver a robust solution in the same 67x100mm form factor that made Eurotech Catalyst family so powerful in the industrial, gaming, transportation, defense, and medical applications.
The Catalyst TC fits into small embedded devices that need to be mindful of size and power consumption. With so many features coming out directly on the module, such as CAN bus, USB, serial ports, LVDS and VGA interfaces, HD audio, and PCIe buses, OEMs can focus on designing very small devices that can run on battery for longer than ever before. Regarding memory and storage, the Catalyst TC offers DRAM, SATA, SD, and on-board flash to make a truly flexible solution. The Catalyst TC comes in both commercial and industrial operating temperature ranges.
For customers who need the power of Windows, the Catalyst TC supports Windows 7 as well as WES and Windows CE. Wind River Linux is also supported, including dev kits that offer LiveUSB, a powerful program which allows developers to effortlessly create applications in the Linux environment much more quickly than traditional methods.

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Specifications		
PROCESSOR	CPU	Atom E6xx, up to 1.6GHz – Intel Platform Controller Hub (PHC) EG20T
MEMORY	RAM	Up to 2GB DDR2 Integrated
STORAGE	Embedded	Optional On-board 4GB/16GB SSD – Factory Option: up to 64GB
	SATA	1x SATA 2.0
	Other	Factory Option: 1x IDE Interface
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps with RGMII Interface
	USB	9x USB 2.0 Including 1x Configurable USB Host/Client
	Serial	Up to 4x RS-232/RS-485 (1x Full, 3x 3-wires), 1x UART (Debug)
	CAN bus	1x CAN bus 2.0
	Digital I/O	5x GPIO
	Video	1x LVDS Interface with 24-bit Color, 1x SDVO Interface
	Audio	Intel High Definition Audio
	PCI Express	3x PCIe x1
	SPI	Yes
	LPC	Yes
	I2C	2x I2C
	SMBus	Yes
	Other	1x JTAG, 2x Secure Digital / Multi Media Card (MMC) Interfaces
OTHER	TPM	Factory Option
POWER	Consumption	2-3W Typ
	Management	Advanced Power Control, System Health/Environmental Monitor, ACPI Power Management
ENVIRONMENT	Operating Temp	- 40 to +85°C
	Storage Temp	- 40 to +85°C
MECHANICAL	Dimensions	67x100mm (LxW) - Catalyst Form Factor
SOFTWARE	OS	Wind River Linux 7, WES 7, Windows CE, Windows 7 Support
	IoT Framework	Everyware Software Framework Ready