EPC-S2100
Industrial Platform Datasheet

Overview

The Contec DTx (DTx) EPC-S2100 industrial platforms simplify deployment of embedded systems virtualization for industrial applications. The series supports the Intel® Industrial Solutions System Consolidation software by pre-integrating key virtualization software onto the hardware platform.
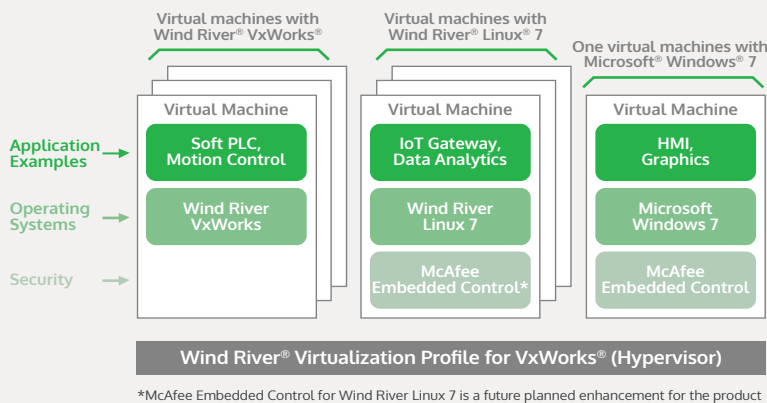
The EPC-S2100 Series features 4th generation Intel® Core™ vPro™ processors with Intel® Virtualization Technology (Intel® VT). This architecture provides the performance necessary to host multiple instances of the Wind River® VxWorks® RTOS and Wind River Linux® 7.0 as well as one instance of Microsoft® Windows® 7 operating systems.

Virtualized Applications

DTx's EPC-S2100 platform can run multiple industrial and IoT workloads supporting Wind River's hypervisor with real-time, embedded and general-purpose operating systems. Virtualized applications can include:

- Data Acquisition
- Machine Control
- Human Machine Interface (HMI)
- Real-Time Analytics

*McAfee Embedded Control for Wind River Linux 7 is a future planned enhancement for the product

EPC-S2100 Platform Features

- 4th Generation Intel Core i7 Processor with Hardware Assisted Virtualization Technology

- 16GB DDR3 SDRAM to support multiple Virtual Machines

- Solid State storage for high reliability industrial applications

- 10 USB ports for Virtual Machine I/O

- PCIe expansion slots to I/O and industrial control devices

- High speed networking options for expanded industrial network access

- Tested with the Intel® Industrial Solutions System Consolidation software stack

Benefits

- **Faster Embedded Systems Development** Reduces the complexity of development for virtualized embedded applications so benefits can be realized more quickly at a lower cost

- **Hardware Flexibility** System configuration and expansion options support a wide variety of industrial automation applications in a virtual environment

- **Workload Consolidation** Lower infrastructure costs by running multiple workloads on the system

- **Data Acquisition, I/O & Motion Control** Supports a wide variety of data acquisition, digital and analog I/O and motion control boards from Contec, a leader in industrial products

- **Software Flexibility** Allows system developers the ability to deploy new applications on existing platforms that run a combination of real-time, embedded, and general-purpose operating systems

- **Deterministic Performance** Enables embedded virtual application developers to deploy time-critical workloads such as machine control, with rigorous latency constraints

- **System Stability** Run diverse workloads in secure, virtualized partitions that increase stability by preventing unintended interactions between software applications

Specifications

Model	EPC-S2100P4-AC
BASE SYSTEM	
Processor	Intel® Core i7-4770S
Chipset	Intel Q87 Platform Controller Hub
Video	Primary – Intel® HD Graphics 4600 / Secondary – ATI Radeon™ HD 5450
Memory	16GB DDR3 1333/1600 SDRAM
I/O INTERFACE	
Ethernet	Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet (Additional Dual and Quad Ethernet Options)
Serial Ports	1x RS232 and 1x RS232/422/485 (4 Additional RS232 Ports Available)
USB	4 USB 3.0 / 6 USB 2.0
DIO	Onboard 8-bit Digital I/O
Audio	(Line-in / Line-out, Mic-in)
Mini PCIe	1 Mini-PCIe Slot (supports mSATA)
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec.
POWER SUPPLY	
AC Input	100 to 240 VAC
STORAGE	
Drive Bays	2 x 2.5" Removable / 1 x 2.5" Internal
SSD	2 x 120GB 2.5"
MECHANICAL	
Dimensions	7.2" H x 10.3" W x 10.3" D
Weight	Approx. 12.3 lbs
Mounting	Side mounting brackets
ENVIRONMENTAL	
Operating Temperature	0° to 50° C
Storage Temperature	-20° to 80° C
Relative Humidity	5 to 90% Non-condensing
Regulatory	FCC, CSA, CE (In process)

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How to Order

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About CONTEC DTx

CONTEC DTx (DTx), a subsidiary of Contec Co., Ltd., is a technology solutions integrator providing Engineering, Manufacturing and Supply Chain Management services to OEMs around the world. The DTx product portfolio ranges from more than 800 DAQ, Measurement and Control products to limitless combinations of custom integrated COTS and Tier 1 computers and displays. This extensive line of products and services allows us to focus on helping our customers solve problems and expand their own product offerings with innovative new technology. Our solutions reduce cost, speed time to market and allow OEMs to focus on their core competencies.