EPC-S2100
Industrial Platform Datasheet

Overview

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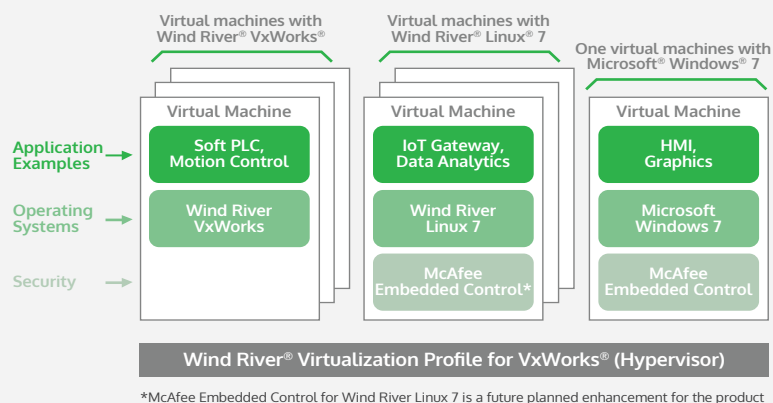
The EPC-S2100 features 4th generation Intel® Core™ vPro™ processors with Intel® Virtualization Technology (Intel® VT). This architecture provides the performance necessary to host multiple instances of the Wind River® VxWorks® RTOS and Wind River Linux® 7.0 as well as one instance of Microsoft® Windows®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

Virtualized Applications

Contec'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

- **DAQ, 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-S2100
BASE SYSTEM	
Processor	Intel® Core i7-4770S
Chipset	Intel Q87 Platform Controller Hub
Video	Primary – Intel® HD Graphics 4600
Memory	16GB DDR3-1600 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	
Input	100 to 240 VAC, 50/60 Hz, Active PFC Universal AC Input (Output Power: 270W max.)
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	North America and EU Safety and EMC

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How to Order
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