

# » EZ3-VX3044-A0-L «



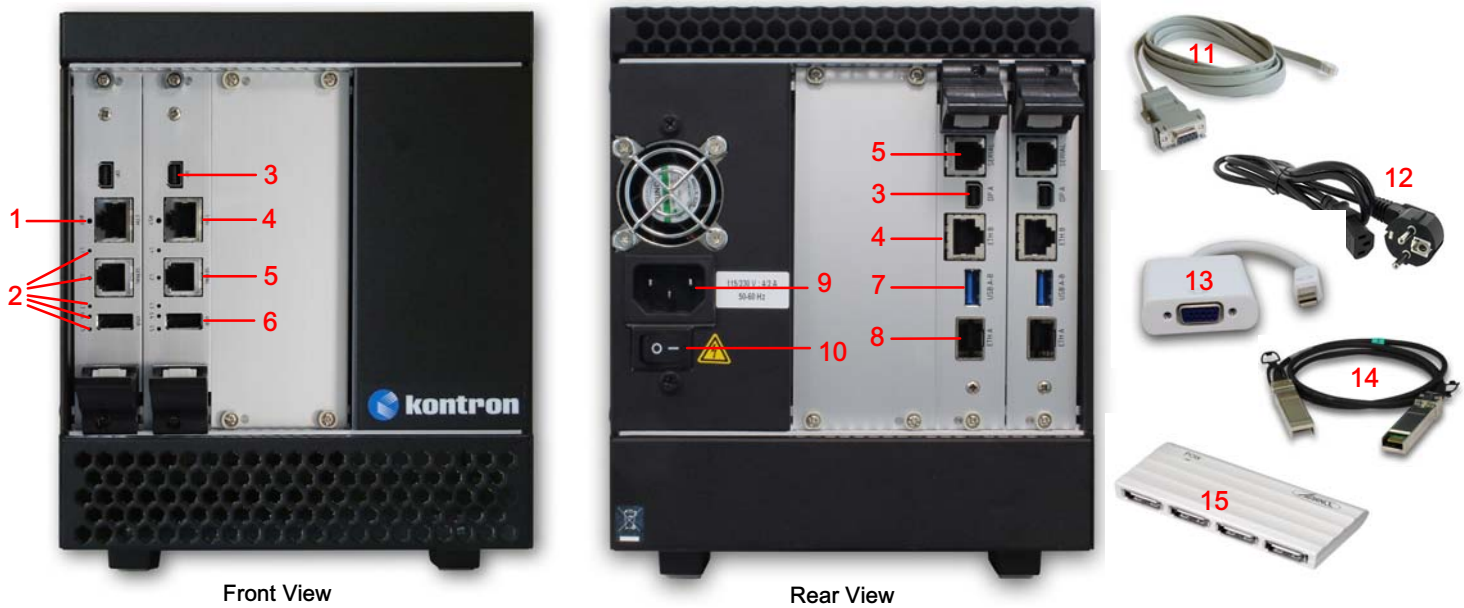
## Quick Start

SD.DT.G13-1e - February 2013

### » Ordering Information

System type EZ3-VX3044-A0-L

- ▶ EZ3-VX3044-A0-L 3U VPX Dual SBC system with Intel® Core™ i7 Quad Core Computer. Linux software version



1. Reset Button
2. Status LEDs L1, L2, L3, L4, L5
3. Mini DisplayPort
4. Gigabit Ethernet ETH
5. Serial Connector COM1

6. USB 2.0
7. USB 3.0
8. 10 Gigabit Ethernet Connector
9. Power Supply Connector
10. AC Switch

11. KIT\_RJ12DB9
12. Power Supply Cable
13. DP-VGA Adapter
14. 10 Gigabit Cable
15. USB Hub

EZ3-VX3044-A0-L is ready to use: its factory settings can get you to a shell prompt under Linux OS or VxWorks in a few seconds.

See the EZ3-VX304X Getting Started Documentation (SD.DT.G09) for a detailed system description.

## » Embedded Software Information - Operating System

- ▶ Linux Fedora 16 64-bit (Kernel-2.6.35.6)

## » Plug

To connect the EZ3-VX3044-A0-L 3U VPX Intel or x86 Computer, you need to connect the following cables:

- ▶ the power supply cable (12) in the power supply connector (9)
- ▶ the serial cable KIT-RJ12DB9 (11) in the serial connector (5)
- ▶ Mini DisplayPort: a display can be attached to the port (3) for graphics console interface
- ▶ USB: for mouse and keyboard use this port (6). A USB hub is provided (15).

## » Play - Start the system

The ON/OFF button (10) is located on the rear panel of the EZ3-VX3044-A0-L system.

- ▶ Power on the main power supply module, AC Switch on the rear side of the system.

## » Play – Evaluate the system

### ▶ Pre-Installed Benchmark:

Lmbench is a suite of benchmark interesting especially for memory bandwidth and latency. To launch the benchmark, the path is `/usr/share/vx304x_benchmark`

### ▶ PBIT(Power on Built In Test):

Tests a computer platform prior to launch the main software. Can be launched from the BIOS and quickly evaluated using its interactive mode. PBIT is optional for each SBC and is always part of Easy Evaluation Systems.

### ▶ VXFabric:

In the EZ3-VX3044-A0-L system, the two VX3044 boards are interconnected through the backplane by a PCIe x8 gen3 link. The VXFabric tools and kernel modules are provided to enable the communication over the PCIe between the different CPU nodes.

## » Linux System Parameters

- ▶ Root account    login: root  
                         password: kontron
- ▶ Guest account    login: guest  
                         password: guest

### ▶ Networking

EZ3-VX3044-A0-L has several Ethernet ports configured, named `em1`, `p16p2` and `vxeth0`.

All of them are configured with a private static IP which depends on the board geoid.

`em1` (4) (gigabit Ethernet / hardware name: ETH on front panel) is configured on the 192.168.0 network.

`p16p2` (8) (10 gigabit Ethernet / hardware name: ETHA on RTM) is configured on the 192.168.30 network.

`vxeth0` (VxFabric TCP/IP on PCIe) is configured on the 192.168.10 network.

### ▶ System Storage

System is installed on the soldered 32 GB SATA flash. Storage is organised with a small `/boot` partition and large `/and/home` partitions spanning the rest of the disk.

### ▶ Serial Line / Console Output

EZ3-VX3044-A0-L front panel serial line is managed by Linux and a login prompt is offered on it .

Characteristics of the serial line:

Baudrate: 115200 - Parity:None -  
Data Bits: 8 - Stop Bit: 1  
Flow Control: None

## » Display

Graphical display is provided through the DisplayPort connector. However boot loading is only displayed through `ttys0` console.

## » Play - Stop the system

- ▶ Shutdown the Operating System.
- ▶ Power off the main power supply module (AC Switch on the rear side of the system) (10).