

# TRL-40

4U Server-Grade System with Dual Intel® Xeon® Processor E5 and E5 v2 family  
Extended ATX Server Board



## Specifications

### Processor & System

<b>CPU</b>	Intel® Xeon® E5-2658, 2.1 GHz, QPI 8GT/s, 20 MB cache, 32nm, 95W TDP, LGA2011(8C) Intel® Xeon® E5-2648L, 1.8 GHz, QPI 8GT/s, 20 MB cache, 32nm, 70W TDP, LGA2011(8C) Intel® Xeon® E5-2658 v2, 2.4 GHz, QPI 8GT/s, 25 MB cache, 22nm, 95W TDP, LGA2011(10C) Intel® Xeon® E5-2648L v2, 1.9 GHz, QPI 8GT/s, 25 MB cache, 22nm, 70W TDP, LGA2011(10C) Intel® Xeon® E5-2640 v2, 2.0 GHz, QPI 7.2GT/s, 20 MB cache, 22nm, 95W TDP, LGA2011(8C) Intel® Xeon® E5-2630 v2, 2.6 GHz, QPI 7.2GT/s, 15 MB cache, 22nm, 80W TDP, LGA2011(6C)
<b>Chipset</b>	Intel® C604 Chipset
<b>Memory</b>	Dual-Channel DDR3 1600 MHz, 8x 240-pin DIMM sockets, up to 128 GB Supports ECC registered DIMMs or non-ECC unbuffered DIMMs
<b>BIOS</b>	AMI 64 Mb SPI BIOS
<b>IPMI</b>	ASPEED AST2300 BMC IPMI Support for Intelligent Platform Management Interface v.2.0 AMI MegaRAC Web GUI KVM/media redirection support Support for remote power-cycle, power-down, power-up and server reset by NIC Serial over LAN (rear I/O COM port) HW monitor: +12V, +5V, +3.3V, CPU voltage, CPU/motherboard temperature, CPU/system fan speed Watchdog Timer: 1-65535 sec software programmable, can generate system reset
<b>Operating Systems</b>	Microsoft Windows Server 2008 R2 64-bit Microsoft Windows 7 64-bit RedHat Enterprise Linux 6

## I/O Interfaces

<b>Serial ATA</b>	4x Serial ATA ports with 6 Gb/s data transfer rate by Marvell 88SE9230 (SATA port from Marvell support RAID 0/1/10) 2x Serial ATA ports with 6 Gb/s data transfer rate from PCH 2x Serial ATA ports with 3 Gb/s data transfer rate from PCH (SATA port from PCH support RAID 0/1/5/10) 1x Mini PCIE full card slot support interface either PCIe Gen2/USB or m-SATA(signal share SATA 6Gb/s port from PCH)
<b>Drive Bays</b>	External: 3x 5.25", 1x 3.5", 1x slim optical drive Internal: 4x 3.5"
<b>USB</b>	8x USB 2.0 ports (4x rear I/O, 2x front panel, 2x onboard pin headers)
<b>Serial Port</b>	1x RS-232 (pin header), 1x RS-232/422/485 (rear I/O)
<b>Expansion Slots</b>	Slot 1: PCIe x16 Gen3 from CPU1 Slot 2: PCIe x16 Gen3 from CPU1 Slot 3: PCIe x16 Gen3 from CPU2 Slot 4: PCIe x8 Gen3 from CPU1 Slot 5: PCIe x16 Gen3 from CPU2 Slot 6: PCIe x4 Gen2 from PCH (physical PCIe x8 slot)

## Features

- Dual LGA2011 Intel® Xeon® Processor E5 and E5 v2 family
- Eight memory sockets support DDR3-1600 REG/ECC or Non-ECC up to 128GB
- 4x PCIe x16 Gen3, 1x PCIe x8 Gen3 and 1x PCIe x4 Gen2 (physical PCIe x8 slot)
- IPMI 2.0 Remote Management
- 600W or 1000W PS/2 single power supply or 600W mini-redundant power supply
- Supports three 5.25", five 3.5" drive bays with true anti-vibration design

## Audio

<b>Audio Codec</b>	Realtek ALC262 on DB-Audio2 daughter board (optional)
<b>Interface</b>	Line-in, Line-out, Mic-in on DB-Audio2 daughter board (optional)

## Display

<b>Graphics</b>	BMC AST2300 built-in 64MB VRAM
<b>VGA</b>	Dsub-15 connector, up to 1920x1200 resolution @60 Hz

## Ethernet

<b>Controller</b>	Dual Intel® GbE Controller I210-AT (NIC0 and NIC1)
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## Mechanical and Environmental

<b>Dimensions</b>	430 mm x 176 mm x567 mm (16.9" x 6.9" x22.3") (W x H x D, w/o handles)
<b>Weight</b>	21 kg net (46.3 lb)
<b>Operating Temp.</b>	0° C to 40° C
<b>Storage Temp.</b>	-20° C to 80° C
<b>Certifications</b>	CE, FCC Class A
<b>Relative Humidity</b>	10% to 90%, non-condensed

## Ordering Information

Model Number	Description/Configuration
TRL-40	4U Server-Grade System with Dual Intel® Xeon® Processor E5 and E5 v2 family and E5 v2 family Extended ATX Server Board
RK-470MB	Server Chassis only

\*Please contact ADLINK for RK-470MB server chassis availability.

## Optional Accessories

29-033B0-0070	Hot Swap HDD Enclosure (For 5pcs 3.5" HDD)
31-01239-0000	APS9100XA-EPS12/PSL-6A00V
31-12207-0000	APS-960XAR-EPS12/MRW-5600V4V
31-01238-1000	APS-960XA-EPS12/FSP600-80PSA

## Dimensions

Units: mm

