

# Oracle Advanced Services Gateway Server E6-2L

Oracle Advanced Support Gateway Server E6-2L is an x86 server designed for security, reliability, and for running Oracle Advanced Support Gateway software required to provide connected services to Oracle customers. Each server comes with built-in, proactive fault detection, and advanced diagnostics, along with firmware that is already optimized for Oracle operating systems and Oracle platform software, to deliver extreme reliability for enterprise applications.

This server is configured specifically to run the Oracle Advanced Services Gateway Software, a multi-purpose platform that facilitates and enables a number of Oracle connected services including Oracle Platinum Services.

## Product Overview

Oracle Advanced Services Gateway Server E6-2L is powered by a single AMD® EPYC™ E6 product family CPU, and has 24 memory slots. With more than 20 percent increase in processing power versus the previous generation, Oracle Server E6-2L provides the optimal balance of cores, memory, and I/O throughput, making it the highest performing server in its class for enterprise applications.

Designed as an optimal server for running the Oracle Advanced Services Gateway along side Oracle on-premises solutions.

As the industry leader for building secure software and systems, Oracle believes that security should be built in, not bolted on. In order to build x86 servers with end-to-end security, Oracle owns 100 percent of the design and controls 100 percent of the supply chain and firmware source code. Oracle's x86 servers enable only secure protocols out of the box to prevent unauthorized access at point of install. For even greater security, customers running Oracle Ksplice on Oracle's x86 servers can benefit greatly from zero downtime patching of the Oracle Linux kernel.

Real-time monitoring of the health of the CPU, memory, and I/O subsystems, coupled with off-lining capability of failed components, increases the system availability. These are driven by firmware-level problem detection capabilities that are engineered into Oracle Integrated Lights Out Manager (Oracle ILOM) and the operating systems. In addition, exhaustive system diagnostics and hardware-assisted error reporting and logging enable identification of failed components for ease of service.

Oracle ILOM utilizes industry-standard protocols to provide secure and comprehensive local and remote management. Oracle ILOM capabilities also include power management and monitoring, fault detection, and notification. With an advanced cooling system unique to Oracle, Oracle Advanced Services Gateway Server E6-2L achieves system efficiencies that result in power

## Key Features

- Support for the latest Oracle Advanced Services Gateway Software
- Compact and energy-efficient 2U enterprise-class server
- Highest levels of security enabled out of the box
- AMD® EPYC™ E6 product family CPUs
- 128 GB DDR5-6400
- Four PCIe Gen 5 slots plus four 10GBase-T ports
- Four NVM Express SSD-enabled slots, for high-bandwidth flash
- Hot-swappable and redundant disks, cooling fans, and power supply units
- Oracle ILOM

## Key Benefits

- Accelerate Oracle Database with hot-swappable flash using Oracle's unique NVM Express design
- Reduce vulnerability to cyberattacks
- Improve reliability with built-in diagnostics and fault detection from Oracle Linux
- Maximize I/O bandwidth for VM consolidation of enterprise applications
- Reduce energy consumption with Oracle Advanced System Cooling
- Maximize IT productivity by running Oracle software or Oracle hardware

savings and maximum uptime. Oracle Advanced System Cooling utilizes temperature sensors for fan speed control, minimizing power consumption while keeping optimal temperatures inside the server. These temperature sensors are designed into key areas of this server to ensure efficient fan usage by organizing all major subsystems into cooling zones. This capability helps reduce energy consumption in a way that other servers cannot.

Oracle Premier Support customers have access to My Oracle Support and multiserver management tools in Oracle Enterprise Manager Ops Center. Oracle Enterprise Manager Ops Center, a critical component that enables application-to-disk system management, coordinates servers, storage, and networking for an IaaS solution complete with monitoring, provisioning, and metering. Oracle Enterprise Manager Ops Center also features an automated service request capability, whereby potential issues are detected and reported to Oracle's support center without user intervention, assuring the maximum service levels and simplified support.

## Oracle Advanced Services Gateway Server E6-2L System Specifications

### Architecture

#### Processor

- (1) AMD® 9115 32-core 3.4 GHz

#### Main Memory

- (4) 32 GB DDR5-6400 RDIMMs

### Interfaces

#### Standard I/O

- Quad 10-Gigabit Ethernet (RJ45 10,000Base-T) PCIe adapter
- One 3.1 USB port
- One 1GbE 100/1000BASE-T RJ-45 Gigabit Ethernet (GbE) port
- 9-slot PCIe card back panel configurations support up to nine half height PCIe cards.
- Supports LP-PCIe cards including Ethernet, InfiniBand, FC, FCoE, and SAS HBAs

#### Storage

- NVMe storage drives: 4-Drive bay front panel, either 9-slot PCIe card back panel or Full Height PCIe card capable back panel
- SAS storage drives: 12-Drive bay front panel, 9-slot PCIe card back panel
- (2) 3.84 TB NVMe PCIe 4.0 SSD installed

#### Security

- One Root-of-Trust (RoT) card back panel slot

#### Graphics

- VGA 2D graphics controller embedded with 8 MB of dedicated graphics memory
- Resolution: 1,600 x 1,200 x 16 bits @ 60 Hz via the rear HD15 VGA port (1,024 x 768 when viewed remotely via Oracle ILOM)

### Systems Management

#### Interfaces

- Dedicated 1GbE 100/1000BASE-T RJ-45 Oracle Integrated Lights Out Manager (ILOM) service processor (SP) network management Ethernet port
- In-band, out-of-band, and side-band network management access
- RJ45 serial management port

#### Service Processor

Oracle Integrated Lights Out Manager (Oracle ILOM) provides:

- Remote keyboard, video, and mouse redirection
- Full remote management through command-line, IPMI, and browser interfaces
- Remote media capability (USB, DVD, CD, and ISO image)
- Advanced power management and monitoring
- Active Directory, LDAP, and RADIUS support
- Dual Oracle ILOM flash

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- Direct virtual media redirection
  - FIPS 140-2 mode using OpenSSL FIPS certification (#1747)
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### Monitoring

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- Comprehensive fault detection and notification
  - In-band, out-of-band, and side-band SNMP monitoring v1, v2c, and v4
  - Syslog and SMTP alerts
  - Automatic creation of a service request for key hardware faults with Oracle's automated service request (ASR)
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### Software

#### Operating Systems

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- Oracle Advanced Services Gateway
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### Environment

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- Operating temperature: 5°C to 35°C (41°F to 95°F)
  - Nonoperating temperature: -40°C to 70°C (-40°F to 158°F)
  - Operating relative humidity: 10% to 90%, noncondensing
  - Nonoperating relative humidity: up to 93%, noncondensing
  - Operating altitude: up to 9,840 feet (3,000 m\*) maximum ambient temperature is derated by 1°C per 300 m above 900 m (\*except in China where regulations may limit installations to a maximum altitude of 6,560 feet or 2,000 m)
  - Nonoperating altitude: up to 39,370 feet (12,000 m)
  - Acoustic noise: 7.0 Bels A-weighted operating, 7.0 Bels A-weighted idling
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### Power

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- Two hot-swappable and highly-redundant 1400W power supplies
  - Rated line voltage: 240 VAC
  - Rated input current 200 to 240 VAC 10A Max 50/60Hz
  - Rated output: V1 12/1V dc, 116A Max; Vsb 12/1V dc, 3.0A Max
  - Max Power: 1400W
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### Regulations<sup>1,2</sup>

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- Product safety: UL/CSA-60950-1, EN60950-1-2006, IEC60950-1 CB scheme with all country differences
  - EMC
    - Emissions: FCC CFR 47 Part 15, ICES-003, EN55022, EN61000-3-2 and EN61000-3-3
  - Immunity: EM55024
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### Certifications<sup>1,2</sup>

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- North America Safety (NRTL)
  - European Union (EU)
  - International CB Scheme
  - BIS (India)
  - BSMI (Taiwan)
  - RCM (Australia)
  - CCC (PRC)
  - MSIP (Korea)
  - VCCI (Japan)
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### European Union Directives

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- 2006/95/EC Low Voltage Directive
  - 2004/108/EC EMC Directive
  - 2011/65/EU RoHS Directive
  - 2012/19/EU WEEE Directive
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<sup>1</sup> All standards and certifications referenced are to the latest official version. For additional detail, please contact your sales representative.

<sup>2</sup> Other country regulations/certifications may apply.

## Dimensions and Weight

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- Height: 42.6 mm (1.7 in.)
  - Width: 436.5 mm (17.2 in.)
  - Depth: 737.0 mm (29.0 in.)
  - Weight: 18.1 kg (40.0 lb.) fully populated
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## Included Installation Kits

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- Tool-less rackmounting slide rail kit
  - Cable management arm
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