

Reglón 1

Server Storage

Gabinete

- 3U chassis support for max. motherboard size - 13.68" x 13"
- Supports dual, single Intel® / AMD processors
- Height 132mm
- Width 437mm
- Depth 648mm
- Color Black

Expansion Slots

7x full-height full-length expansion slots

Drive Bays

- Hot-swap
- 16x 3.5" SAS / SATA Hot-swap drive trays
- SAS or enterprise SATA HDD only recommended

Backplane

3U Direct Attached Backplane, features:

- 3Gb/6Gb support
- SES-2 Enclosure Management Support
- SAS/SATA support
- 16 SATA connectors

Peripheral Drives

DVD-ROM Slim DVD-ROM Drive

Front Panel Buttons

- Power On/Off button
- System Reset button

LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED
- Power fail LED

Ports

2x USB Ports & DB9 COM Port

System Cooling

Fans

- 3x 80mm Hot-swap PWM Fans
- 2x 80mm Rear-exhaust Fans

System Monitoring

Chassis intrusion switch

Operating Environment (System)

Operating Temperature Range	5°C ~ 35°C
Non-Operating Temperature Range	-40°C ~ 60°C
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
Non-Operating Relative Humidity Range	5% - 95% (non-condensing)

Power Supply and Distributor

800W (1 + 1) Redundant AC-DC high-efficiency power supply w/ PFC

AC Voltage 100 - 240V, 50-60Hz, 10-4 Amp

+5V standby 4 Amp

+12V 66 Amp

With Power Distributor +5V: 30 Amp

+3.3V: 24 Amp
-12V: 0.6 Amp

Regulatory (Power Supply)

Power Supply Safety / EMC

USA - UL listed
Canada - CUL listed
Germany - TUV Certified
EN 60950/IEC 60950-Compliant
CB Report
CCC Certification

Motherboard

Physical Stats

Form Factor

ATX

Dimensions

30.48cm x 24.4 cm

Processor/Cache

CPU

Intel® Xeon® processor E3-1200 v3/v4 and

4th/5th Gen Core

i7/i5/i3, Pentium, Celeron processors

Single Socket H3 (LGA 1150)

A Graphic Integrated CPU is required to have

the on-board video

functioned. Examples: E3-1265L v3, E3-1275

v3*

System Memory

Memory Capacity

4x 240-pin DDR3 DIMM sockets

Supports up to 32GB DDR3 ECC/Non-ECC Un-

Buffered memory

(UDIMM)

Memory Type

1600MHz ECC/non-ECC DDR3 SDRAM 72-bit,

240-pin gold-plated

DIMMs

8GB, 4GB, 2GB, 1GB

DIMM Sizes

Memory Voltage

1.5V, 1.35V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

Intel® C226 Express PCH

SATA

SATA3 via PCH w/ RAID 0, 1, 5, 10

SATA3 via ASM1061

Network Controllers

Intel® i217LM + Intel® i210AT

Controllers

Supports 10BASE-T, 100BASE-TX, and

1000BASE-T, RJ45

output

RealTek ALC1150 High Definition Audio

Audio

Input / Output

Serial ATA

6x SATA3 (6Gbps) ports via PCH

2x SATA3 (6Gbps) ports via ASM1061®

Total of 8x SATA3 ports (6Gbps)

LAN

2x RJ45 Gigabit Ethernet LAN ports

USB	6x USB 3.0 ports (2 rear, 4 via headers) 10x USB 2.0 ports (4 rear, 6 via headers)
Audio	7.1 HD Jacks
Display	1x VGA, 1x HDMI, 1x DVI, 1x Display
port Serial Port / Header	2x COM ports (headers)
DOM	SATA DOM (Disk on Module) power
connector support Others	TPM header, 2x Type B 1394a headers,
PS/2 connector for	mouse and keyboard
Expansion Slots	
PCI-Express	2x PCI-E 3.0 x16 slots -Function as:
16/NA or 8/8	3x PCI-E 2.0 x1 slots 2x PCI 5V 32-bit slots
PCI	
System BIOS	
BIOS Type	128Mb SPI Flash EEPROM with AMI
BIOS	
BIOS Features	DMI (SMBIOS) 2.7 ACPI 5.0 USB Keyboard support
Management	
Software	SuperDoctor® III Watch Dog AMT vPro
Power Configurations	ACPI / ACPM Power Management Main Switch Override Mechanism Power-on mode for AC power recovery Internal/External modem ring-on
PC Health Monitoring	
Voltage	Monitors for CPU Cores, +1.8V, +12V,
+3.3V, +5V, +5V Standby	VBAT, HT, Memory, Chipset Voltages 5-Phase-switching voltage regulator
with auto-sense from	0.8375V-1.60V
FAN	Total of five 4-pin fan headers
supporting up to 5 fans	

monitoring	5x fans with tachometer status Status monitor for speed control Status monitor for on/off control Support 3-pin fans (w/o speed control) Low noise fan speed control Pulse Width Modulated (PWM) fan
connectors	
Temperature	Monitoring for CPU and chassis
environment	CPU thermal trip support FC temperature sensing logic Thermal Monitor 2 (TM2) support PECI
LED	CPU / System Overheat LED +5V Standby alert LED

Procesador

Desempeño

Cantidad de núcleos	4
Cantidad de subprocesos	8
Frecuencia básica del procesador	3.40 GHz
Frecuencia turbo máxima	3.90 GHz
Caché	8 MB SmartCache
Velocidad del bus	5 GT/s DMI2
TDP	84 W

Especificaciones de memoria

Tamaño de memoria máximo (depende del tipo de memoria)	32 GB
Tipos de memoria	DDR3-1333/1600, DDR3L-1333/1600 @ 1.5V
Cantidad máxima de canales de memoria	2
Máximo de ancho de banda de memoria	25,6 GB/s
Compatible con memoria ECC ‡	No

Especificaciones de gráficos

Gráficos del procesador ‡	Intel® HD Graphics 4600
Frecuencia de base de gráficos	350.00 MHz
Frecuencia dinámica máxima de gráficos	1.20 GHz
Memoria máxima de video de gráficos	2 GB
Salida de gráficos	eDP/DP/HDMI/DVI/VGA
Resolución máxima (HDMI 1.4)‡	4096x2304@24Hz
Resolución máxima (DP)‡	3840x2160@60Hz
Resolución máxima (eDP - panel plano)	3840x2160@60Hz

integrado)‡	
Resolución máxima (VGA)‡	1920x1200@60Hz
Compatibilidad con DirectX*	11.2/12
Compatibilidad con OpenGL*	4.3
Intel® Quick Sync Video	Sí
Tecnología Intel® InTru™ 3D	Sí
Intel® Wireless Display	Sí
Intel® Flexible Display Interface	Sí
Tecnología Intel® HD de video nítido	Sí
Nº de pantallas admitidas ‡	3
ID de dispositivo	0x412

Opciones de expansión

Escalabilidad	1S Only
Revisión de PCI Express	Up to 3.0
Configuraciones de PCI Express ‡	Up to 1x16, 2x8, 1x8+2x4
Cantidad máxima de líneas PCI Express	16

Especificaciones de paquete

Zócalos compatibles	FCLGA1150
Máxima configuración de CPU	1
Especificación de solución térmica	PCG 2013D
T _{CASE}	72.72°C
Tamaño de paquete	37.5mm x 37.5mm

Tecnologías avanzadas

Versión de la tecnología Intel® Turbo Boost ‡	2.0
Tecnología Intel® vPro ‡	Sí
Tecnología Hyper-Threading Intel® ‡	Sí
Tecnología de virtualización Intel® (VT-x) ‡	Sí
Tecnología de virtualización Intel® para E/S dirigida (VT-d) ‡	Sí
Intel® VT-x con tablas de páginas extendidas (EPT) ‡	Sí
Intel® Transactional Synchronization Extensions - New Instructions	No
Intel® 64 ‡	Sí
Conjunto de instrucciones	64-bit
Extensiones de conjunto de instrucciones	SSE4.1/4.2, AVX 2.0
Tecnología Intel® My WiFi	Sí
Estados de inactividad	Sí
Tecnología Intel SpeedStep® mejorada	Sí
Tecnologías de monitoreo térmico	Sí
Tecnología Intel® Identity Protection ‡	Sí
Programa Intel® de imagen estable para plataformas	Sí

(SIPP)

Ventaja Intel® para pequeñas empresas

Sí

Memoria

SPECIFICATIONS

CL(IDD)

11 cycles

Row Cycle Time (tRCmin)

48.125ns (min.)

Refresh to Active/Refresh

260ns (min.)

Command Time (tRFCmin)

Row Active Time (tRASmin)

35ns (min.)

Maximum Operating Power

2.160 W*

UL Rating

94 V - 0

Operating Temperature

0° C to 85°C

Storage Temperature

-55°C to +100°C

Power will vary depending on the SDRAM used

FEATURES

JEDEC standard 1.5V (1.425V ~ 1.575V) Power Supply

VDDQ = 1.5V (1.425V ~ 1.575V)

800MHz fCK for 1600Mb/sec/pin

8 independent internal bank

Programmable CAS Latency: 11, 10, 9, 8, 7, 6

Programmable Additive Latency: 0, CL - 2, or CL - 1 clock

8-bit pre-fetch

Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]

Bi-directional Differential Data Strobe

Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm ± 1%)

On Die Termination using ODT pin

Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE < 95°C

Asynchronous Reset

PCB : Height 1.180" (30.00mm), single sided compone

Unidades de disco

Specifications

Interface

SATA 6 GB/s

Formatted capacity

4TB

Form factor	3.5-inch
Advanced Format (AF)	Yes
RoHS compliant	Yes
Performance	
Data transfer rate (max)	
Buffer to host	6 GB/s
Host to/from drive (sustained)	202 MB/s
Cache (MB)	128
Performance Class (RPM)	7200-RPM Class
Reliability/Data Integrity	
Load/unload cycles	300,000
Non-recoverable read errors per bits read	<1 in 10
Limited warranty (years)	5
Power Management	
Average power requirements (W)	
Read/Write	9.1
Idle	5.8
Standby/Sleep	1.0
Environmental Specifications	
Temperature (°C)	
Operating	5 to 55
Non-operating	-40 to 70
Physical Dimensions	
Height (mm, max)	26.1
Length (mm, max)	147
Width (mm, ± .01 in.)	101.6
Weight (kg,)	0.72 ± 10%

Grabadora DVD SATA

BUFFER

Tamaño (MB) 0.5

Software incluido

CyberLink S
PowerDVD í

Tiempo de acceso

DVD-ROM 145 ms typ
DVD-ROM DL 220 ms typ
DVD-RAM 270 ms ty
CD-ROM 125 ms typ

Tipo de unidad

Interna/Externa Interna

Sistemas Operativos compatibles Windows XP, Windows Vista, Windows 7, Windows 8

Tipo de unidad SATA, Ultra DMA Mode 6

Velocidad de lectura

DVD-Video (CSS Compliant Disc) (SL/DL) 16x max

DVD-RAM 2x ZCLV / 5x PCAV

BD-R DL 12X

DVD+R DL 12x max.

DVD+R/+RW 16x / 13x max

CD-R/RW/ROM	48x/40x/48x max
CD-DA	40x max
CD de 80 mm	22X max
M-DISC/+M	12x CAV
Velocidad de escritura	
DVD-R	2x, 4x CLV, 8x PCAV, 16x, 24x CAV
DVD-R DL	4x CLV, 8x ZCLV
DVD-RW	2x, 4x, 6x CLV
DVD+RW	2.4x, 4x, 6x CLV, 8x ZCLV :(High Speed DVD+RW: 6x CLV, 8x ZCLV)
CD-RW	4x, 10x, 16x CLV, 24x ZCLV
M-DISC/+M	4x CLV
DVD+R (DL)	2.4x, 4x CLV, 8x ZCLV
DVD+R	2.4x CLV 4x CLV, 8x PCAV, 16x, 24x CAV
DVD-RAM	2x, 3x, 5x CLV
CD-R	16x CLV, 32x, 40x PCAV, 48x CAV
Dimensiones	
A x Alt. x P (mm)	146 x 41.3 x 165
Peso (g)	700g

Hardware SFP 10Gbps PCIe interno

General:

- Intel® 82599 10GbE controller
- Single SFP+ PORT (AOC-STGN-i1SF)
- Compact size low-profile standard form factor
- PCI-E x8 2.0 (5GT/s)
- Load balancing on multiple CPUs
- iSCSI remote boot support
- Fibre Channel over Ethernet (FCoE) Support
- Intel® PROSet Utility for Windows® Device Manager

I/O Features:

- Intel QuickData Technology: DMA engine that enhances data acceleration and lowers CPU usage
- Direct Cache Access (DCA) to avoid cache misses
- MSI-X support to minimize the overhead of interrupts and allows load-balancing between multiple cores/CPU's
- Tx/Rx IP, SCTP, TCP and UDP checksum offloading capabilities (IPv4, IPv6)
- Receive and Transmit Side Scaling for Windows environments and Scalable I/O for Linux environments

Virtualization Features:

- Supports virtualization features such as VMDq, Next-generation VMDq (64 queues per port) and PC-SIG SR-IOV implementation
- IPv6 Offloading
- Advanced Packet Filtering
- VLAN support to allow creation of multiple VLAN segments

Manageability Features:

- Preboot eXecution Environment (PXE) support
- Simple Network Management Protocol (SNMP) and Remote

Network Monitoring (RMON) statistics counters
- iSCSI remote boot

Cables Support:

- SFP+ direct attached twin axial cables, up to 7 meters
- LC-LC fiber-optic cables (optional SFP+ transceiver is required)
- NC-SI cable, comes with motherboard

OS Support:

- Windows Server 2012 (x64 Edition)
- Windows 8 (x64 Edition and 32-bit)
- Windows Server 2008 R2 (x64 Edition, 64-bit)
- Windows Server 2008 (x64 Edition, 64-bit, and 32-bit)
- Windows 7 (x64 Edition and 32-bit)
- Windows Vista (x64 Edition and 32-bit)
- Windows Server 2003 (x64 Edition, 64-bit, and 32-bit)
- VMWare
- RedHat EL, SUSE SLES
- Free BSD

Operating Conditions:

- Operating temperature: 0°C to 55°C

Physical Dimensions:

- Card PCB dimensions:
10.16cm (4.00in) x 6.90cm (2.73in)
- Height of end brackets:
standard - 12cm (4.725in),
low-profile - 7.94cm (3.13in)

Controladora de RAID por hardware de 16 puertos SATA III, RAID 0/1/10/5/6

Details

Type

SATA / SAS

Internal Connectors

4 x SFF-8087 mini-SAS

Interface

PCI-Express 2.0 x8

Transfer Rate

Up to 6Gb/s

Cache Memory

512MB

RAID

RAID 0/1/5/6/10/50/60

Operating Systems Supported

Microsoft Windows Vista/Server 2003/2000/XP, Linux and more.

Dimensions

6.6" x 4.376"

Support Up to 128 SATA and/or SAS Devices

Hot-pluggable, SATA-compatible SAS (Serial Attached SCSI) ports to provide 6Gb/s data transfer rates for optimum performance, efficiency, convenience and flexibility.

RAID Support

Supports multi-level RAID configuration including RAID 0, 1, 5, 6, and RAID spans 10, 50, 60 for better performance, enhanced data security and flexible capacity upgrades.

512MB On-board Memory

512MB on-board DDR2 800 SDRAM for maximum data integrity.

PCI Express 2.0 x8 Interface

PCI Express 2.0 x8 interface which provides sufficient throughput and full-duplex operation for enhanced performance.

Auto-Resume

The auto resume after loss of system power during array rebuild or reconstruction provides reliable and stable data protection.

OCE & RLM

The advanced Online RAID Capacity Expansion (OCE) and Online RAID Level Migration (RLM) allow you to expand the storage capacity of the RAID configuration and upgrade the RAID level without turning off the server respectively.

Licencia Windows PRO OEM 64b

Reglón 2

Monitor Led 23"

Panel Pulgadas 23

Tipo de panel IPS

Aspect Ratio 16:9

Resolución (px) 1920x1080

Brillo 250cd/m2

Contraste 5,000,000:1 (DFC)

Tiempo de respuesta 5ms

Ángulo de visión 178º/178º

Colores 16.7M

Entrada/Salida D-Sub Sí

HDMI Sí, HDMI (1920x1080)

Características Super Energy Saving Si

Picture Mode Sí

Plug & Play Sí

Original Ratio Si

Dual Smart Solution Sí

HDCP Sí

Anti Parpadeo Sí

Off timer Sí

Key Lock Sí

Intelligent Auto Sí

Modo Lectura Sí

Soporte Base desmontable Si

Inclinación (ángulo) -5º~20º

Medidas/Peso Dimensiones (sin soporte) (mm) 544 x 60 x 332

VESA 75 x 75

Peso (con soporte) 3.2 kg

Peso (sin soporte) 2.9 kg

Teclado y mouse