



## DELL PowerEdge R610 server 146 GB Rack (1U) Intel® Xeon® 5000 Sequence E5645 2.4 GHz 12 GB DDR3-SDRAM 717 W



Brand : DELL

Product family: PowerEdge

Product code: PER610

Product name : R610

DELL PowerEdge R610. Processor family: Intel® Xeon® 5000 Sequence, Processor frequency: 2.4 GHz, Processor model: E5645. Internal memory: 12 GB, Internal memory type: DDR3-SDRAM, Memory layout (slots x size): 3 x 4 GB. Total storage capacity: 146 GB, HDD size: 2.5", HDD interface: Serial Attached SCSI (SAS). Power supply: 717 W, Redundant power supply (RPS) support. Chassis type: Rack (1U)

Processor		Graphics	
Processor manufacturer *	Intel	Maximum graphics card memory	8 MB
Processor family *	Intel® Xeon® 5000 Sequence	Network	
Processor model *	E5645	Ethernet LAN	✗
Processor frequency *	2.4 GHz	Expansion slots	
Processor boost frequency	2.67 GHz	PCI Express x8 slots	2
Processor cores	6	PCI Express slots version	2.0
Processor cache	12 MB	Design	
Motherboard chipset	Intel® 5520	Chassis type *	Rack (1U)
Memory channels supported by processor	Triple	Software	
Number of processors installed	1	Operating system installed *	✗
Thermal Design Power (TDP)	80 W	Processor special features	
Processor cache type	Smart Cache	CPU configuration (max)	2
System bus rate	5.86 GT/s	Intel Rapid Storage Technology	✗
Processor socket	Socket B (LGA 1366)	Enhanced Intel SpeedStep Technology	✓
Processor lithography	32 nm	Intel® Wireless Display (Intel® WiDi)	✗
Processor threads	12	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes	64-bit	Intel® Anti-Theft Technology (Intel® AT)	✗
Stepping	B1	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
FSB Parity	✗	Intel® My WiFi Technology (Intel® MWT)	✗
Bus type	QPI	Intel® Turbo Boost Technology	1.0
Number of QPI links	2	Intel® Quick Sync Video Technology	✗
Processor codename	Westmere EP	Intel® InTru™ 3D Technology	✗
Tcase	76.2 °C	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Maximum internal memory supported by processor	288 GB	Intel® Insider™	✗
Memory types supported by processor	DDR3-SDRAM	Intel Flex Memory Access	✗
Memory clock speeds supported by processor	800,1066,1333 MHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory bandwidth supported by processor (max)	32 GB/s	Intel Trusted Execution Technology	✓
ECC supported by processor	✓	Intel Enhanced Halt State	✓
Execute Disable Bit	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Idle States	✓	Intel Demand Based Switching	✓
Thermal Monitoring Technologies	✗	Intel Clear Video Technology	✗
Processor package size	42.5 X 45 mm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Supported instruction sets	SSE4.2	Intel 64	✓
Physical Address Extension (PAE)	40 bit	Intel Virtualization Technology (VT-x)	✓
Embedded options available	✓		
CPU multiplier (bus/core ratio)	18		
Processor series	Intel Xeon 5600 Series		
Conflict-Free processor	✗		
Memory			
Internal memory *	12 GB		
Internal memory type *	DDR3-SDRAM		

<b>Memory</b>		<b>Processor special features</b>	
Memory slots	12x DIMM	Intel Dual Display Capable Technology	✗
Memory clock speed	1333 MHz	Intel FDI Technology	✗
Memory layout (slots x size)	3 x 4 GB	Intel Fast Memory Access	✗
Maximum internal memory *	192 GB	Processor ARK ID	48768
<b>Storage</b>		<b>Power</b>	
Maximum storage capacity *	12 TB	Number of power supply units	2
Total storage capacity *	146 GB	Redundant power supply (RPS) support *	✓
Number of HDDs installed	1	Power supply *	717 W
HDD capacity	146 GB	<b>Weight &amp; dimensions</b>	
HDD interface	Serial Attached SCSI (SAS)	Width	480 mm
HDD speed	15000 RPM	Depth	770 mm
HDD size	2.5"	Height	40 mm
Number of HDDs supported	6	Weight	17.7 kg
RAID support *	✗	<b>Features</b>	
Hot-swap	✗	Images Type Map	✗
Optical drive type *	✗	<b>Other features</b>	
<b>Graphics</b>		Graphics card	G200
On-board graphics card	✓	Graphics card family	Matrox

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