



## DELL PowerEdge R630 server 600 GB Rack (1U) Intel® Xeon® E5 v4 E5-2640V4 2.4 GHz 16 GB DDR4-SDRAM

Brand : DELL

Product family: PowerEdge

Product code: 6NFYY

Product name : R630



Intel Xeon E5-2640v4 (25M Cache, 2.4GHz), 16GB DDR4 2400MHz, 600GB HDD, Gigabit Ethernet  
DELL PowerEdge R630. Processor family: Intel® Xeon® E5 v4, Processor frequency: 2.4 GHz, Processor model: E5-2640V4. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 600 GB, HDD size: 2.5". Ethernet LAN, Cabling technology: 10/100/1000Base-T(X). Chassis type: Rack (1U)



| Processor                                      |                    | Ports & interfaces                              |   |
|--|--------------------|---|---|
| Processor manufacturer *                       | Intel              | Ethernet LAN (RJ-45) ports *                    | 2   |
| Processor family *                             | Intel® Xeon® E5 v4 | USB 2.0 ports quantity                          | 2   |
| Processor model *                              | E5-2640V4          | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 2   |
| Processor frequency *                          | 2.4 GHz            | VGA (D-Sub) ports quantity                      | 2   |
| Processor boost frequency                      | 3.4 GHz            | Serial ports quantity                           | 1   |
| Processor cores                                | 10                 | Expansion slots                                 |   |
| Processor cache                                | 25 MB              | PCI Express x8 (Gen 3.x) slots                  | 1   |
| Motherboard chipset                            | Intel C610         | PCI Express x16 (Gen 3.x) slots                 | 1   |
| Memory channels supported by processor         | Quad               | PCI Express slots version                       | 3.0   |
| Number of processors installed                 | 1                  | Design  |   |
| Thermal Design Power (TDP)                     | 90 W               | Chassis type *                                  | Rack (1U)   |
| Processor cache type                           | Smart Cache        | Rack mounting                                   | ✓   |
| System bus rate                                | 8 GT/s             | Rack rails                                      | ✓   |
| Processor socket                               | LGA 2011-v3        | Performance                                     |   |
| Processor lithography                          | 14 nm              | Trusted Platform Module (TPM)                   | ✓   |
| Processor threads                              | 20                 | Software  |   |
| Processor operating modes                      | 64-bit             | Operating system installed *                    | ✗   |
| Stepping                                       | R0                 | Compatible operating systems *                  | Microsoft Windows Server 2008 R2  |
| Bus type                                       | QPI                |   | Microsoft Windows Server 2012   |
| Number of QPI links                            | 2                  |   | Microsoft Windows Server 2012 R2  |
| Processor codename                             | Broadwell          |   | Novell SUSE Linux Enterprise Server   |
| Tcase  | 76 °C              |   | Red Hat Enterprise Linux VMware ESX Microsoft Windows Server 2012 with Hyper-V VMware vSphere ESXi Citrix XenServer |
| Maximum internal memory supported by processor | 1.54 TB            | Processor special features                      |   |
| Memory types supported by processor            | DDR4-SDRAM         | CPU configuration (max)                         | 2   |
| Memory clock speeds supported by processor     | 1600,1866,2133 MHz |   |   |

| Processor                                     |                       | Processor special features                               |             |
|---|-----------------------|--|-------------|
| Memory bandwidth supported by processor (max) | 68.3 GB/s             | Enhanced Intel SpeedStep Technology                      | ✓           |
| ECC supported by processor                    | ✓                     | Intel® Identity Protection Technology (Intel® IPT)       | ✗           |
| Execute Disable Bit                           | ✓                     | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓           |
| Idle States                                   | ✓                     | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓           |
| Thermal Monitoring Technologies               | ✓                     | Intel® Turbo Boost Technology                            | 2.0         |
| Maximum number of PCI Express lanes           | 40                    | Intel Flex Memory Access                                 | ✗           |
| PCI Express configurations                    | 1x4, 1x8, 1x16        | Intel® AES New Instructions (Intel® AES-NI)              | ✓           |
| Processor package size                        | 52.5 x 51 mm          | Intel Trusted Execution Technology                       | ✓           |
| Supported instruction sets                    | AVX 2.0               | Intel VT-x with Extended Page Tables (EPT)               | ✓           |
| Scalability                                   | 2S                    | Intel Demand Based Switching                             | ✓           |
| Physical Address Extension (PAE)              | ✓                     | Intel® Secure Key  | ✓           |
| Physical Address Extension (PAE)              | 46 bit                | Intel TSX-NI   | ✓           |
| Embedded options available                    | ✓                     | Intel® OS Guard  | ✓           |
| Processor series                              | Intel Xeon E5-2600 v4 | Intel 64   | ✓           |
| Conflict-Free processor                       | ✓                     | Intel Virtualization Technology (VT-x)                   | ✓           |
| <b>Memory</b>                                 |                       | Processor ARK ID   | 92984       |
| Internal memory *                             | 16 GB                 | <b>Power</b>   |             |
| Internal memory type *                        | DDR4-SDRAM            | Power supply input frequency                             | 50 - 60 Hz  |
| Memory slots                                  | 24                    | <b>Operational conditions</b>                            |             |
| ECC   | ✓                     | Storage temperature (T-T)                                | -40 - 65 °C |
| Memory clock speed                            | 2400 MHz              | Operating relative humidity (H-H)                        | 10 - 80%    |
| Maximum internal memory *                     | 1.54 TB               | Storage relative humidity (H-H)                          | 5 - 95%     |
| <b>Storage</b>                                |                       | Operating altitude                                       | 0 - 3048 m  |
| Total storage capacity *                      | 600 GB                | Non-operating altitude                                   | 0 - 12000 m |
| HDD capacity                                  | 600 GB                | <b>Weight &amp; dimensions</b>                           |             |
| HDD size                                      | 2.5"                  | Width  | 482 mm      |
| Hot-swap                                      | ✓                     | Depth  | 701.3 mm    |
| <b>Graphics</b>                               |                       | Height   | 42.8 mm     |
| On-board graphics card                        | ✓                     | <b>Technical details</b>                                 |             |
| On-board graphics card model                  | Not available         | Sustainability certificates                              | ENERGY STAR |
| Maximum graphics card memory                  | 16 MB                 | <b>Other features</b>                                    |             |
| <b>Network</b>                                |                       | Built-in display   | ✓           |
| Ethernet LAN                                  | ✓                     | Display  | LCD         |
| Cabling technology                            | 10/100/1000Base-T(X)  |  |             |
| Ethernet interface type                       | Gigabit Ethernet      |  |             |



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