



711.07867 REV 04 – Rio Camera with In-Situ PC System

Manufacturer: Dell
Model: PowerEdge T630

Base Unit:	PowerEdge T630 tower server (210-ACWJ, 329-BCZH, 461-AADZ, 321-BBKC, 350-BBBW, 770-BBCR, 384-BBBL, 332-1286, 800-BBDM)
Processor:	(2) Intel Xeon E5-2667 v4, 8 core, 3.2 GHz, 20Mb L3, 9.6 GT/s, 135 W, Turbo (338-BJDM, 338-BJCU, 412-AADX)
Memory:	256 Gb RAM, 2400 MHz, Dual rank, x4 data width, performance optimized; (8) 32 Gb RDIMMs (370-ACNS, 370-ACPH, 370-AAIP)
Video Card:	(1) nVidia Quadro K2200, 4 Gb GDDR5, 640 CUDA cores, PCIe v2 x16, 68 W max power consumption, with (2) DP v1.2 and (1) DVI-I DL connectors (PNY VCQK2200-PB)
Monitor:	(1) Dell 32" Widescreen flat panel display, UP3216Q, 3840x2160, HDMI & mini-DP & DP connectors, 6 ft length DP/DP cable (210-AFLN, 806-3509, 806-3522)
Hard Drives:	(1) 1.2 Tb, 2.5" SAS, 10,000 rpm, 6 Gb/s (380-2692) (8) 1000 Gb, 2.5" Serial-ATA Solid State (Samsung 860 EVO MZ-76E1T0BW)
HD RAID:	RAID 0 (from the 8 x 1000 Gb SSD's), (1) 7.4 Tb logical drive
HD Controller:	(1) PERC H730P (LSI SAS 3108, PowerPC 476 dual-core ROC), 8 ports, 12 Gb/s SAS, 6 Gb/s SATA, 2 Gb DDR3 SDRAM non-volatile cache, PCIe v3 x8 (405-AACU)
Optical Drive:	(1) DVD+/-RW, SATA (429-AAPS)
Power Supply:	(1) 1100 W Hot Plug (450-ADWL, 450-AALV)
Operating System:	Windows Server 2016 Standard Edition, 64-Bit, English (634-BILD, 634-BILL)
Network Adapters:	(1) QLogic 57810 Dual Port, 10GBASE-T, PCIe v2 x8 (540-BBBD) (1) On-Board LOM, 1GBE, Dual Ports (542-BBBP)
Keyboard:	(1) Dell USB, wired Keyboard, Black, English (570-AAAJ) (1) Logitech Illuminated Keyboard K740, wired USB (920-000914)
Mouse:	(1) Dell Optical Mouse, USB, wired, Black (580-AADG) (1) Logitech Corded Mouse M500, wired USB (910-001204)
Expansion Slots (all full length & height except as noted):	(4) PCIe x16, Generation 3 (1 occupied by Video card) (2) PCIe x8, Generation 3 (half-length slot, both are occupied by QLogic & PERC cards) (2) PCIe x8, Generation 2 (wired as x4)
Tower I/O Ports:	Front: (1) USB 3.0, (1) USB 2.0 Rear: (2) USB 3.0, (4) USB 2.0, (1) VGA, (2) NIC, (1) iDRAC, (1) Serial
Service:	3 Year ProSupport and NBD On-site Service (976-8209, 976-8218, 976-8285, 989-3439)
Documentation:	Electronic System Documentation & OpenManage DVD kit (343-BBDE)
Embedded Systems Management:	iDRAC8 Express, integrated Dell remote access controller (385-BBHN)

Notes:

1. Components shown in **blue text** are not available as standard items on a PowerEdge server from Dell.
2. Only the Logitech keyboard & mouse are provided when the system is purchased through Gatan. The native Dell equivalents may be necessary if BIOS level changes are needed for initial setup.
3. Other setup equipment may be required for initial use of the video card and monitor.
4. If the specific hardware device configuration requires more expansion slots than what is available on the motherboard, an Expansion Enclosure System will also need to be purchased:

PCI Express to 2 PCI & 2 PCIe Expansion Enclosure System – Full Length
Gatan p/n#101780 (StarTech #PEX2PCIE4L)

5. If the monitor, keyboard and mouse need to be located farther from the computer than would be permitted by the standard 2m cabling, an optional 10m Ultra HD monitor cable bundle may be purchased (included if computer purchased from Gatan):

(10m) DP 1.2/1.3 Active Optical cable, (10m) USB 2.0 A male to B male active cable, (12.2m) 250V power cord
Gatan p/n# 711.27000

Important: Check with the Software group and Marketing before changing this specification.