# FUJITSU

## Data Sheet FUJITSU Desktop ESPRIMO D756/E90+

### Combines High Efficiency with Manageability

The FUJITSU ESPRIMO D756/E90+ Desktop provides high expandability and solid performance for your challenging business applications. The use of the same software load within the product series ensures perfect infrastructure compatibility and simplifies rollouts. Its 90%-efficient power supply will ensure environmental compliance for years to come. With its innovative Low Power Active Mode feature you are ready for instant communication in the modern office. Intel® Standard Manageability keeps administration costs low. Finally, EraseDisk ensures secure system retirement.

### Quiet

- Pleasant working environment due to an extremely quiet system
- Innovative hardware design, optimized cooling concept ensures silent operations

### Always Available Office PC - stay connected and save power

- Be ready for instant communication and a significantly reduced energy bill
- Innovative Low Power Active Mode and highly-efficient integrated power-supply

### Energy efficiency and high performance

Low power consumption combined with high levels of performance

■ 6th generation Intel<sup>®</sup> Core<sup>™</sup> processor family, a switched monitor outlet and a power supply with 90% efficiency

### Green technology

- Another example of the Fujitsu commitment to environmental protection and sustainability
- Halogen-free printed circuit board of mainboard, sophisticated product concept for the entire lifecycle

### Serviceability

Easy to extend and optimal user-friendliness without any additional tools

Easy access to all replaceable and expandable components







### Components

| Processor                        | Intel <sup>®</sup> Core <sup>™</sup> i7-6700 processor (4 Cores / 8 Threads, 3.40 GHz, up to 4.0 GHz, 8 MB, Intel <sup>®</sup> HD Graphics 530) *   |  |  |  |
|----------------------------------|---|--|--|--|
|                                  | Intel <sup>®</sup> Core <sup>™</sup> i5-6600 processor (4 Cores / 4 Threads, 3.30 GHz, up to 3.9 GHz, 6 MB, Intel <sup>®</sup> HD Graphics 530) *   |  |  |  |
|                                  | Intel® Core™ i5-6500 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 530) *   |  |  |  |
|                                  | Intel® Core™ i5-6400 processor (4 Cores / 4 Threads, 2.70 GHz, up to 3.3 GHz, 6 MB, Intel® HD Graphics 530) *   |  |  |  |
|                                  | Intel® Core™ i3-6100 processor (2 Cores / 4 Threads, 3.70 GHz, 3 MB, Intel® HD Graphics 530)  |  |  |  |
|                                  | Intel® Pentium® processor G4500 (2 Cores / 2 Threads, 3.50 GHz, 3 MB, Intel® HD Graphics 530)   |  |  |  |
|                                  | Intel <sup>®</sup> Pentium <sup>®</sup> processor G4400 (2 Cores / 2 Threads, 3.30 GHz, 3 MB, Intel <sup>®</sup> HD Graphics 510)   |  |  |  |
|                                  | Intel® Celeron® processor G3900 (2 Cores / 2 Threads, 2.80 GHz, 2 MB, Intel® HD Graphics 510)   |  |  |  |
|                                  | *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)   |  |  |  |
| )perating systems                |   |  |  |  |
| Operating system                 | Windows 10 Pro<br>Windows 10 Home<br>Windows 8.1 Pro<br>Windows 8.1<br>Windows 7 Professional 64-bit<br>Windows 7 Professional 32-bit   |  |  |  |
| Operating system compatible      | Windows 10 Pro (license + recovery media only)<br>openSUSE Linux  |  |  |  |
| Aicrosoft OS support information | This system receives full support from Microsoft with Windows 10/Windows 10 Pro only. For any other Microsoft OS installed, this device has limited support from Microsoft. For more information, please see Microsoft's Supp<br>Lifecycle FAQ. |  |  |  |
| Operating system notes           | This system receives full support from Microsoft with Windows 10/Windows 10 Pro only. For any other Microsoft OS installed, this device has limited support from Microsoft. For more information, please see Microsoft's Support Lifecycle FAQ. |  |  |  |
| Nemory modules                   | 4 GB (1 module(s) 4 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM   |  |  |  |
|                                  | 8 GB (1 module(s) 8 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM   |  |  |  |
|                                  | 16 GB (1 module(s) 16 GB) DDR4, unbuffered, non-ECC, 2,133 MHz, UDIMM   |  |  |  |
| lard disk drives (internal)      | SSD PCIe 512 GB M.2 Highend   |  |  |  |
|                                  | SSD PCIe 256 GB M.2 Highend   |  |  |  |
|                                  | SSD PCIe 128 GB M.2 Highend   |  |  |  |
|                                  | SSD SATA III 512GB M.2  |  |  |  |
|                                  | SSD SATA III 256GB M.2  |  |  |  |
|                                  | SSD SATA III 128 GB M.2   |  |  |  |
|                                  | SSD SATA III, 512 GB, 2.5-inch  |  |  |  |
|                                  | SSD SATA III, 256 GB, 2.5-inch  |  |  |  |
|                                  | SSD SATA III, 512 GB, 2.5-inch, SED   |  |  |  |
|                                  | SSD SATA III, 256 GB, 2.5-inch, SED   |  |  |  |
|                                  | SSD SATA III, 128 GB, 2.5-inch, SED   |  |  |  |
|                                  | SSD SATA III, 120 GD, 2.5-inch  |  |  |  |
|                                  |   |  |  |  |
|                                  | SSHD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch<br>SSHD SATA III, 5,400 rpm, 500 GB, 2.5-inch  |  |  |  |
|                                  |   |  |  |  |
|                                  | HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical  |  |  |  |
|                                  | HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch, business critical  |  |  |  |
|                                  | HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch   |  |  |  |
|                                  | HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch   |  |  |  |
|                                  | HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch   |  |  |  |
|                                  | HDD SATA II, 5,400 rpm, 500 GB, 2.5-inch*   |  |  |  |

| Hard disk notes                   | Up to 20 GB of HDD space is reserved for system recovery   |  |  |  |  |
|-----------------------------------|--|--|--|--|--|
|                                   | SSHD (Solid State Hard Disk, Hybrid drive)<br>SSD (Solid State Disk)                                     |  |  |  |  |
|                                   | SED (Self-Encrypting Drive)  |  |  |  |  |
|                                   |  |  |  |  |  |
| Graphics                          | VGA Extension Card   |  |  |  |  |
|                                   | NVIDIA® NVS™315 LP, 1 GB   |  |  |  |  |
|                                   | NVIDIA® GeForce® GTX 745 2 GB LP, 2 GB   |  |  |  |  |
|                                   | NVIDIA <sup>®</sup> GeForce <sup>®</sup> 605 DisplayPort 1GB LP, 1 GB                                    |  |  |  |  |
|                                   | LFH59/ 2x DVI-I adapter cable  |  |  |  |  |
|                                   | LFH59/ 2x DP adapter cable   |  |  |  |  |
|                                   | DVI-I to VGA Adapter   |  |  |  |  |
|                                   | DP to DVI-D (single link) Adapter Cable  |  |  |  |  |
| Drives (optional)                 | BD Triple Writer SATA ultra slim (tray)  |  |  |  |  |
|                                   | DVD Super Multi ultra slim (tray)  |  |  |  |  |
|                                   | MultiCard Reader 24in1 USB 2.0 3.5"  |  |  |  |  |
| Interface add on cards/components |  |  |  |  |  |
| (optional)                        |  |  |  |  |  |
|                                   | WLAN 802.11ac (2x2) PCIe x1 LP and BT 4.1 (dedicated regions only, up to BT 4.2 depending on OS version) |  |  |  |  |
|                                   | WLAN 802.11ac (2x2) PCIe x1 LP (dedicated regions only)  |  |  |  |  |
|                                   | Parallel Interface   |  |  |  |  |
|                                   | Gigabit Ethernet PCle x1, DS   |  |  |  |  |
|                                   | eSATA Interface  |  |  |  |  |
|                                   | Dual serial card PCIe x1   |  |  |  |  |
|                                   |  |  |  |  |  |

### Base unit

| Base unit                     | ESPRIMO D756/90+  |  |  |  |
|-------------------------------|---|--|--|--|
| Mainboard                     |   |  |  |  |
| Mainboard type                | D3431   |  |  |  |
| Formfactor                    | proprietary   |  |  |  |
| Chipset                       | Intel <sup>®</sup> Q150   |  |  |  |
| Processor socket              | LGA 1151  |  |  |  |
| Processor quantity maximum    | 1   |  |  |  |
| Supported capacity RAM (max.) | 64 GB   |  |  |  |
| Memory slots                  | 4 DIMM (DDR4)   |  |  |  |
| Memory frequency              | 2,133 MHz   |  |  |  |
| Memory notes                  | Dual channel support<br>For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be<br>the same. |  |  |  |
| LAN                           | 10/100/1,000 MBit/s Intel® I219V  |  |  |  |
| BIOS version                  | AMI Aptio V   |  |  |  |
| BIOS features                 | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI)<br>CSM (Compatibility Support Module)          |  |  |  |
| Audio type                    | On board  |  |  |  |
| Audio codec                   | Realtek ALC671  |  |  |  |
| Audio features                | Internal speaker supports audio playback (optional), High Definition audio, 5.1 surround sound  |  |  |  |
| I/O controller on board       |   |  |  |  |
| Serial ATA total              | 5   |  |  |  |
| thereof SATA III              | 5   |  |  |  |

| I/O controller on board        |  |  |  |  |
|--------------------------------|--|--|--|--|
| thereof eSATA                  | 2  |  |  |  |
| Controller functions           | Serial ATA III (6 Gbit)<br>NCQ   |  |  |  |
|                                | AHCI   |  |  |  |
| Interfaces                     |  |  |  |  |
| Audio: line-in                 | 1  |  |  |  |
| Audio: line-out                | 1  |  |  |  |
| Front audio: microphone        | 1  |  |  |  |
| Front audio: headphone         | 1  |  |  |  |
| USB 2.0 total                  | 6  |  |  |  |
| USB 3.0 total                  | 6  |  |  |  |
| USB front                      | 2x USB 2.0; 2x USB 3.0   |  |  |  |
| USB rear                       | 2x USB 2.0; 4x USB 3.0   |  |  |  |
| USB internal                   | 2x USB 2.0   |  |  |  |
| VGA                            | optional: via adapter card   |  |  |  |
| DisplayPort                    | 2  |  |  |  |
| DVI                            | 1 (DVI-D)  |  |  |  |
| Serial (RS-232)                | 1 ; optional: 2nd serial port (9pin, 16 byte FIFO, 16550 compatible)   |  |  |  |
| Mouse / Keyboard (PS/2)        | 2  |  |  |  |
| Ethernet (RJ-45)               | 1  |  |  |  |
| Parallel                       | 1 (optional) (25pin with EPP and ECP)  |  |  |  |
| eSATA                          | 1 (optional)   |  |  |  |
| Interface Module notes         | Anytime USB charge functionality   |  |  |  |
| Input device / components      |  |  |  |  |
| Input devices (optional)       | Keyboard   |  |  |  |
|                                | Mouse  |  |  |  |
|                                | KBPC PX ECO<br>Mouse M440 ECO  |  |  |  |
|                                | Mouse M440 ECO   |  |  |  |
| Drive bays                     |  |  |  |  |
| 3.5-inch internal bays         | 1  |  |  |  |
| 3.5-inch external bays         | 1  |  |  |  |
| 5.25-inch external bays        | 1  |  |  |  |
| Drive bay notes                | 5,25" bay: for slim optical disc drive only; internal 3.5" bay: 1x 3.5" drive (screwless) or 1x 2.5" drive (screws) or optional via adapter for 1x or 2x 2.5" drives (screws); external 3.5" bay: optional as internal 3.5" bay (screws) |  |  |  |
| M.2-2280                       | 1 x on mainboard (for PCIe or SATA SSD modules)  |  |  |  |
| Slots                          |  |  |  |  |
| PCI-Express 3.0 x16            | 1 x (174 mm / 6.85 inch) Low profile   |  |  |  |
| PCI-Express 2.0 x4 (mech. x16) | 1 x (174 mm / 6.85 inch) Low profile   |  |  |  |
| PCI-Express x1                 | 2 x (174 mm / 6.85 inch) Low profile   |  |  |  |
| Graphics on board              |  |  |  |  |
| Graphics brand name            | Intel® HD Graphics 510, Intel® HD Graphics 530   |  |  |  |
| Shared video memory            | up to 1,782 MB   |  |  |  |
| TFT resolution (VGA)           | 1,024 x 768 pixel  |  |  |  |
|                                | 1,280 x 1,024 pixel  |  |  |  |
|                                | 1,360 x 768 pixel  |  |  |  |
|                                | 1,440 x 900 pixel<br>1,600 x 900 pixel   |  |  |  |
|                                | 1,600 x 900 pixel  |  |  |  |
|                                | 1,680 x 1,050 pixel  |  |  |  |
|                                | 1,920 x 1,080 pixel  |  |  |  |

| FF resolution (0VI)       1.202 to 124 pred<br>1.240 x 900 pred<br>1.400 x 900 pred<br>1.400 x 900 pred<br>1.400 x 1000 pred<br>1.4 | Graphics on board                        |  |  |  |
|--|--|--|--|--|
| I. 360 x 780 pixel         I. 200 x 1200 pixel         I. 320 x 1.200 pixel         I. 420 x 300 pixel         I. 430 x 1.000 pixel         <  |  | 1.280 x 1.026 pixel  |  |  |
| 1,400 x 900 pixel         1,600 x 900 pixel         1,600 x 100 pixel         1,600 x 100 pixel         1,600 x 100 pixel         1,600 x 100 pixel         1,200 x 1.200 pixel         1,200 x 1.200 pixel         1,200 x 1.200 pixel         1,200 x 1.200 pixel         1,400 x 900 pixel         1,400 x 900 pixel         1,200 x 1.200 pixel         2,560 x 1.600 pixel         3,400 x 1.600 pixel         1,200 x 1200 pixel         2,560 x 1.600 pixel         1,200 x 1200 pixel   |  |  |  |  |
| 1,600 × 1000 pixel         1,920 × 1.000 pixel         1,920 × 1.000 pixel         1,920 × 1.000 pixel         1,920 × 1.000 pixel         1,800 × 1000 pixel         1,400 × 300 pixel         1,400 × 300 pixel         1,600 × 1000 pixel         1,920 × 1.000 pixel     <   |  |  |  |  |
| 1-920 x 1, 200 paid         TFT resolution (DisplayPort)       1.281 x 1, 204 paid         1.401 x 900 paid       1.401 x 900 paid         1.600 x 900 paid       1.600 x 1000 paid         1.600 x 1000 paid       1.600 x 1000 paid         1.600 x 900 paid       1.600 x 1000 paid         1.600 x 1000 paid       1.600 x 1000 paid         1.600 x 1000 paid       1.600 x 1000 paid         1.600 x 1000 paid       1.600 x 1000 paid         1.920 x 1,1000 paid       1.600 x 1000 paid         1.920 x 1,1000 paid       1.600 x 1000 paid         1.920 x 1,200 paid       2.560 x 1,400 paid         2.560 x 1,400 paid       2.900 paid         2.560 x 1,400 paid       2.900 paid         2.560 x 1,400 paid       2.900 paid         1.920 x 1,200 paid       1.900 paid   |  |  |  |  |
| 1.920 x 1.200 pixel         TFT resolution (DisplayPort)       1.200 x 1.200 pixel         1.200 x 1.200 pixel       1.200 x 1.200 pixel         1.600 x 1200 pixel       1.600 x 1200 pixel         1.600 x 1200 pixel       1.500 x 1.000 pixel         1.500 x 1.000 pixel       1.500 x 1.000 pixel         1.500 x 1.000 pixel       2.550 x 1.600 pixel         1.500 x 1.000 pixel       2.550 x 1.600 pixel         2.550 x 1.600 pixel       2.550 x 1.600 pixel         2.550 x 1.600 pixel       2.000 pixel         2.550 x 1.600 pixel       2.000 pixel         0.000 x 2.000 pixel       2.000 pixel         0.000 pixel       2.000 pixel  |  |  |  |  |
| TFT resolution (DisplayPort)       1,28 t. 102x pixel         1,360 x.78 pixel       1,360 x.78 pixel         1,360 x.78 pixel       1,360 x.78 pixel         1,400 x.900 pixel       1,600 x.900 pixel         1,600 x.900 pixel       1,600 x.900 pixel         1,600 x.900 pixel       1,920 x.1.900 pixel         1,920 x.1.900 pixel       2,560 x.1.600 pixel         3,800 x.2,160 pixel       2,560 x.1.600 pixel         5,960 x.1.600 pixel       3,800 x.2,160 pixel         9,990 x.2,160 x.1.600 x.1.600 x.1.600 pixel       9,990 x.2.600 x.2.600 pixel         9,990 x.2.600 x.2.600 x.2.600 x.2.600 x.2.600 pixel       9,990 x.2.600 pixel         9,990 x.2.600 x.2.600 x.2.600 pixel       9,990 x.2.600 pixel         9,990 x.2.600 x.2.6000 x.2.600 x.2.600 x.2.600 x.2.600 x.2.600 x.2.600 x.2.6   |  |  |  |  |
| <ul> <li>1.360 × 766 pixel</li> <li>1.440 × 300 pixel</li> <li>1.400 × 300 pixel</li> <li>1.600 × 1.050 pixel</li> <li>1.320 × 1.200 pixel</li> <li>1.320 × 1.200 pixel</li> <li>1.320 × 1.200 pixel</li> <li>2.560 × 1.600 pixel</li> <li>3.860 × 2.166 pixel</li> <li>3.900 × 2.166 pixel</li> <li>4.005 × 3.260 × 1.600 pixel</li> <li>3.860 × 2.166 pixel</li> <li>4.005 × 3.260 × 1.600 pixel</li> <li>3.860 × 2.166 pixel</li> <li>4.005 × 3.260 × 1.600 pixel</li> <li>3.860 × 2.166 pixel</li> <li>4.005 × 3.260 × 1.600 pixel</li> <li>4.005 × 3.260 pixel</li> <li>4.005 × 3.260 × 1.2 mid. Multi-Steam</li> <li>4.005 × 3.260 × 1.2 mid. Multi-Steam</li> <li>4.004 pixel ax auports adu on oxida on dispixe type adultant resolutions and frequencies possible</li> <li>5.847 memory disponsing 0.005 pixel dispixe trad adultarized buttors and frequencies possible</li> <li>5.847 memory disponsing 0.015 × 1.2 mid. Multi-Steam</li> <li>4.788 voltage range</li> <li>1.004 voltage range</li> <li>1.004 voltage range</li> <li>1004 voltage range</li> <li>1004 voltage</li> <li>2004 voltage</li> <li>2004 voltage</li> <li>2004 voltage range</li> <li>2004 voltage</li> <li>2004 voltage&lt;</li></ul>  |  | 1,920 x 1,200 pixel  |  |  |
| 1.403 v 900 pixel         1.600 x 900 pixel         1.600 x 1.050 pixel         1.290 x 1.800 pixel         1.290 x 1.800 pixel         1.290 x 1.800 pixel         2.560 x 1.400 pixel         3.600 x 2.100 pixel         3.600 x 2.100 pixel         3.600 x 2.100 pixel         4.095 x 2.304 pixel         Direct**12  | TFT resolution (DisplayPort)             |  |  |  |
| 1.600 × 100 pixel         1.600 × 100 pixel         1.900 × 1.080 pixel         1.900 × 1.000 pixel         2.560 × 1.600 pixel         3.860 × 2.160 pixel         3.860 × 2.160 pixel         3.860 × 2.160 pixel         3.860 × 2.160 pixel         4.096 × 2.304 pixel         Graphics features         Support to rup to three independent displays         Direct/* 12         HDC* support         OpenCI ** 4.         OpenCI ** 4.         DVD birdforms call and independent displays         Direct/* 12         Direct/* 12         DVD birdforms call and independent displays         Direct/* 12         DVD birdforms call and independent displays         Direct/* 12         DVD birdforms call and independent displays         DVD birdforms call and independent displays         Stated memory display direct and bird independent displays         Birdformany display direct and bird independent displays         Electrical values         Power difficiency note         Power settice envice         Direct/* 20         Read valueg arange       90 V 264 V         Operating inde frequency range       Sette         Direct/* 20       2   |  |  |  |  |
| 1.880 × 1050 pixel         1.920 × 1080 pixel         1.920 × 1080 pixel         2.560 × 1.440 pixel         2.560 × 1.440 pixel         2.560 × 1.440 pixel         2.560 × 1.440 pixel         3.840 × 2.160 pixel         4.096 × 2.304 pixel         Graphics features         Support for up to three independent displays         DirectA* 12         DirectA* 12         One Displayfort connector can be converted to DV-D or HDMI with an optional external adapter         For multi monitoring mode, graphics and an integrated graphics run in parallel         Displayfort traffece supports vor (main memory worked and locked for graphics usel)         Tester desolutions, depending on display type additional resolutions and frequencies possible         Shared memory depending on ma memory size and operating system         Resolution (cloir depth up to 32 Bit/pixel)         Fast FI we reformed using 60Hz         Power efficiency note         power supply efficiency (at 230V, 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       500 + 2.60 Hz         Operating line frequency range       501 + 2.61 Hz         Maxie outpage range       907 - 264 V         Operating line frequency range       4.717 - 63 Hz         Maxie outpage range       900 + 260 Hz  |  |  |  |  |
| 1.920 x 1.080 pixel         1.920 x 1.020 pixel         2.560 x 1.440 pixel         2.560 x 1.640 pixel         3.840 x 2.160 pixel         3.840 x 2.160 pixel         Graphics features         Support for up to three independent displays         Direct3* 12         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 13, 5 or 17 processors)         Opent1** 2.01 (requires intel* Core** 14, 200 (requires intel* Core** 14, 200 (requires intel** Core**         Power efficiency note       power supply efficiency (rate core**         Power efficiency note       power suppl veficiency (rate core***         Operating  |  |  |  |  |
| 1.920 x 1.200 pixel         2.560 x 1.600 pixel         3.840 x 2.100 pixel         3.840 x 2.100 pixel         3.840 x 2.100 pixel         4.095 x 2.304 pixel         Graphics features       Support for up to three independent displays         DirectX* 12         HOCP support       20 (requires Intel® Core® 13, 15 or 17 processors)         OpenCL* 4.4       One Displaybort connector can be converted to DVI D or HDMI with an optional external adapter         For multi monitoring mode, graphics card and integrated graphics run in parallel       Displaybort connector can be converted to DVI D or HDMI with an optional external adapter         For multi monitoring mode, graphics card and integrated graphics run in parallel       Displaybort connector can be converted to DVI D or HDMI monitors         DVI-D interface supports audio output for HDMI monitors       DVI-D interface supports audio output for HDMI monitors         Presed Efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load): 84% / 90% / 92% / 91%         Rated frequency range       50 V - 260 V         Operating values range       100 V - 240 V         Rated frequency range       50 V - 260 V         Operating values range       20 V - 260 V         Max. output of single power suppl       20 W         Power foctor correction/active power       20 W         Power consump   |  |  |  |  |
| 2560 x 1.400 pixel         2560 x 1.600 pixel         3840 x 2.160 pixel         4.096 x 2.304 pixel         Graphics features         Support for up to three independent displays         DirectX** 12         DirectX** 12         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**13, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**14, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**14, is or i7 processors)         Openc1** 2.0 (requires intel* (ore**14, is or i7 processors)         Opencity       prove intel* (ore**14, is ore* intel* (ore**14, is ore* intel* (ore**14, is ore* intel* (ore**14, is ore* intel* (ore**14, is ore**14, is ore***14, is ore****14, is   |  |  |  |  |
| 3.840 x 2,160 pixel         Graphics features       Support for up to three independent displays<br>DirectX* 12         HDO'' support<br>OpenCL** 2.0 (requires Intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires Intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         OpenCL** 2.0 (requires intel* Core** 13, is or 17 processors)         Operating voltage range         Biot Core 11F (we recommend using 60Hz         Electrical values         Power efficiency range       50 Hz - 60 Hz         Operating inte frequency range       60 Hz - 26 Hz         Max output of Single power supply efficiency Consumption       Max output of Single power suppl* 41 Hz - 63 Hz         Max output of Single power suppl* 28 W       Molo   |  |  |  |  |
| 4.096 x 2.30k pixel         Graphics features       Support for up to three independent displays<br>DirectV® 12<br>HDDP support<br>OpenCL® 2.0 (requires intel® fore™ 13, 15 or 17 processors)<br>OpenCL® 4.4         One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>For multi monitoring mode, graphics card and integrated graphics run in parallel<br>DisplayPort interface supports audio output for HDMI monitors         Graphics notes       up to 1 GB dedicated video memory (main memory some and locked for graphics use)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on display type additional resolutions and frequencies possible<br>Shared memory depending on display type additional resolutions and frequencies possible<br>Shared memory depending on display type additional resolutions and frequencies possible<br>Shared vidage range         Power efficiency note       power supply efficiency (at 230V, 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%<br>Rated vidage range         Operating line frequency tange       50 Hz - 60 Hz         Operating line frequency tange       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       See white paper Energy Consumption         Note ensisplot       See white paper Energy Consumption         Heat dissipation notes       See white paper Energy Consumption         Noise ensiston       See white paper Energry Consumption         Noise   |  |  |  |  |
| Graphics features         Support for up to three independent displays<br>DirectX <sup>10</sup> 12           HDC <sup>2</sup> support<br>OpenCL <sup>116</sup> 2.0 (requies Intel <sup>10</sup> Core <sup>116</sup> 3, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>10</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 13, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requies Intel <sup>106</sup> Core <sup>116</sup> 14, 15 or 17 processors)           OpenCL <sup>116</sup> 2.0 (requips Interface Supports Ver. 1.2 Incl. Multi Stream<br>DV-D Interface Support on three remony Cenami memory suze and operating system<br>Resolution (color depth up to 32 Bit/pixel)           Prover fifteery note         power supply efficiency (at 230V; 10% / 70% / 50% / 100% load) : 84% / 90% / 92% / 91%           Rated frequency range         50 Hz - 60 Hz           Operating values range         100 V - 240 V           Rated frequency range         50 Hz - 60 Hz           Operating values range         100 V - 240 V           Rated frequency range         50 Hz - 60 Hz           Operating values range         100 V - 240 V   |  |  |  |  |
| DirectX® 12         HOPS support         OpenGL™ 2.0 (requires Intel® Core™ 13, 15 or 17 processors)         OpenGL® 4.4         One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>For multi monitoring mode, graphics card and integrated graphics run in parallel<br>DisplayPort interface supports audio output for HDMI monitors         Graphics notes       up to 1 GB dedicated video memory (main memory woned and locked for graphics use)<br>Instead resolutions, depending on main memory size and operating system<br>Resolution (color depth up to 3 28 tit/puel)<br>For TFT we recommend using 60Hz         Electrical values       Power efficiency note         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated requency range       50 Hz - 60 Hz         Operating ine frequency range       50 Hz - 60 Hz         Operating ine frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active Hout State   |  |  |  |  |
| bDCP support<br>OpenCL® 2.0 (requires intel® Core® i3, i5 or i7 processors)<br>OpenCL® 2.4<br>One DisplayPott connector can be converted to DVED or HDMI with an optional external adapter<br>For multi monitoring mode, graphics cad and integrated graphics run in parallel<br>DisplayPott interface supports vert 1.2 incl. Multi-Stearan<br>DVI-0 interface supports vert of using in memory opending on main memory sole and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFW er commend using 60HzElectrical valuesElectrical valuesElectrical valuespower supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%Rated frequency range100 V - 240 VRated frequency range50 Hz - 60 HzOperating of grap and system<br>Rated frequency range20 Hz - 63 HzMax. output of single power supply280 WPower consumption20 WPower consumption noteSee white paper Energy ConsumptionLink to Energy White PaperNutcets furgita system<br>Resolution notesPower consumption noteSee white paper Energy ConsumptionNote emissionIzel® (ore® 17 6700Standard noise operation noise (ore % 17 6700Standard noise operation mode:<br>Standard noise operation noise operation noise (ore % 17 6700Standard noise operation mode:<br>Standard noise operation mode: (19 K) (Max Min K)<br>A (19 K) (Max M) (Max M)<br>According to 150 7779:2010, ECMA-74Standard noise operation mode: HD3.28 / 19 dB(A) Systander; 21 dB(A) Operator positionStandard noise operation mode: HD3.28 / 19 dB(A) Systander; 21 dB(A) Operator position  | Graphics features                        |  |  |  |
| BigDepart(L <sup>W</sup> 2.0 (requires Intel® Core <sup>W</sup> 13, 15 or 17 processors)<br>Ope DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>For multi monitoring mode, graphics card and integrated graphics run in parallel<br>DisplayPort interface supports audio output for HDMI monitorsGraphics notesup to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Instead resolutions, depending on display by pe additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (cloor depth up to 3 2 Bit/pixel)<br>For TFT we recommend using 60HzElectrical valuesDower supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%<br>Rated voltage range100 V - 240 VRated frequency range50 Hz - 60 HzOperating ine frequency range50 Hz - 60 HzOperating ine frequency range90 V - 264 VOperating ine frequency range90 V - 264 VPower factor correction/active poweractiveManutor outletSwitchedPower factor correction/active poweractiveMaintor outletSwitchedPower onsumptionExtended Portage (onsumptionLink to  |  |  |  |  |
| OpenCl. * 4, 4         One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter for multi monitoring mode, graphics card and integrated graphics run in parallel DisplayPort interface supports Ver. 1.2 ind. Multi-Stream DVF-D interface supports vere support vereommend using 60Hz  |  |  |  |  |
| One DisplayPort connector can be converted to DVI- D or HDMI with a no ptional external adapter<br>For multi monitoring mode, graphics and and integrated graphics run in parallel<br>DisplayPort interface supports ver. 1.2 ind. Multi-Stream<br>DVI-D interface supports ver. 1.2 ind. Multi-Stream           Graphics notes         up to 1 G de dicitated video memory funai memory owned and locked for graphics use)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/psvle)]<br>For TFT we recommend using 60Hz           Electrical values         power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%<br>Rated voltage range           Power efficiency range         50 Hz - 60 Hz           Operating line frequency range         50 Hz - 60 Hz           Operating line frequency range         90 V - 264 V           Ass. output of single power supply         280 W           Power factor correction/active power         active           Monitor outlet         Switched           Power factor correction/active power         active           Monitor outlet         See white paper Energy Consumption           Link to Energy White Paper         http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712           Heat dissipation notes         See white paper Energy Consumption           Link to Energy White Paper         http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc8881607   |  |  |  |  |
| For multi monitoring mode, graphics card and integrated graphics run in parallel         DisplayPort interface supports Ver. 1.2 ind. Multi-Stream         OPU-D Interface supports audio output for HDMI monitors         Graphics notes       up to 1 GB dedicated video memory (main memory suce and locked for graphics use)         Tested resolutions, depending on display type additional resolutions and frequencies possible         Shared memory depending on main memory suce and operating system         Resolution (color depth up to 32 Bit/pixel)         For TFT we recommend using 60Hz         Electrical values         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated reguency range       50 Hz - 60 Hz         Operating line frequency range       90 V - 264 V         Operating line frequency range       20 HZ - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power factor correction/active power       active         Monito outlet       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation notes       Se   |  |  |  |  |
| DVI-D interface supports audio output for HDMI monitors         Graphics notes       Up to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Itested resolutions, depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz         Electrical values       Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V       Rated voltage range       50 Hz - 60 Hz         Operating voltage range       50 Hz - 60 Hz       Operating voltage range       90 V - 264 V         Operating voltage range       90 V - 264 V       Operating voltage range       90 W         Power officiency rote       switched       Switched       Switched         Power factor correction/active power       active       Monitor voltage       Max. voltage range       90 W         Power consumption       See white paper Energy Consumption       Switched       Switched       Switched         Power consumption note       See white paper Energy Consumption       See Voltage paper Seergy Consumption       See white paper Energy Consumption<  |  |  |  |  |
| Graphics notes       up to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Tested resolutions, depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz         Electrical values       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated frequency range       50 Hz - 60 Hz         Operating voltage range       90 V - 264 V         Operating line frequency range       90 V - 264 V         Operating line frequency range       20 W         Power officion correction/active power       active         Max. output of single power supply 280 W       200 W         Power onsumption       switched         Power onsumption note       See white paper Energy Consumption         Heat dissipation notes       See white paper Energy Consumption         Heat dissipation notes       See white paper Energy Consumption         Noise emission       Zet 64, HDD, 0DD, Windows<br>According to 160 7777-2010, ECMA-74         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: CPU       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Tested resolutions, depending on display type additional resolutions and frequencies possible         Shared memory depending on main memory size and operating system         Resolution (color depth up to 32 Bit/pixel)         For TFT we recommend using 60Hz         Electrical values         Power efficiency note         power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range         100 V - 240 V         Rated voltage range         90 V - 264 V         Operating line frequency range         47 Hz - 63 Hz         Max. output of single power supply         280 W         Power factor correction/active power         Monitor outlet         Switched         Power consumption         Power consumption note         See white paper Energy Consumption         Link to Energy White Paper         http://docs.ts.fujitsu.com/d1.aspx?id=800b73a4-2c2d-40f4-a2d3.9fc888160712         Heat dissipation         Related Processors for noise         Intel® Core <sup>®</sup> i7 6700         Standard noise operation mode: DO         Standard noise operation mode: HDD         Standard noise operation mode: HDD         Standard noise operation mode: HDD         Standard noise operation mode: HD  |  |  |  |  |
| Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz         Electrical values         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated frequency range       50 Hz - 60 Hz         Operating in frequency range       90 V - 264 V         Operating in frequency range       91 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       see white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation notes       See white paper Energy Consumption         Noise emission       2x4 GB, HDD, DDD, Windows<br>According to 150 7779:2010. ECMA-74         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Graphics notes                           |  |  |  |
| Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated voltage range       50 Hz - 60 Hz         Operating voltage range       90 V - 264 V         Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Standard noise ontes / description       Avecighted Sound power Saccording to 150 7779:2010, ECMA-74         Standard noise operation mode: HDU       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDU       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| For TFT we recommend using 60Hz         Electrical values         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated frequency range       50 Hz - 60 Hz         Operating voltage range       90 V - 26A V         Operating voltage range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power consumption       Consumption         Power consumption note       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dil.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation notes       See white paper Energy Consumption         Noise emission       2x 4 GB, HDD, ODD, Windows According to 150 7779-2010, ECMA-74         Standard noise operation mode: CPU <t< td=""><td></td><td></td></t<>   |  |  |  |  |
| Electrical values         Power efficiency note       power supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%         Rated voltage range       100 V - 240 V         Rated frequency range       50 Hz - 60 Hz         Operating voltage range       90 V - 264 V         Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dLaspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       Heat dissipation notes         See white paper Energy Consumption       Noise emission         Noise emission       See white paper Energy Consumption         Noise emission       2x4 GB, HDD, ODD, Windows According to ISO 7779-2010, ECMA-74         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         S0% load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Power efficiency notepower supply efficiency (at 230V; 10% / 20% / 50% / 100% load) : 84% / 90% / 92% / 91%Rated voltage range100 V - 240 VRated frequency range50 Hz - 60 HzOperating voltage range90 V - 264 VOperating ine frequency range47 Hz - 63 HzMax. output of single power supply280 WPower factor correction/active poweractiveMonitor outletSwitchedPower factor correction/active poweractiveMonitor outletSee white paper Energy ConsumptionPower consumptionSee white paper Energy ConsumptionInk to Energy White Paperhttp://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712Heat dissipation notesSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionStandard noise entission2x4 GB, HDD, ODD, Windows<br>According to 150 7779:2010, ECMA-74Standard noise operation mode: CPU<br>50% load3.4 B / 20 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Flectrical values                        |  |  |  |
| Rated voltage range100 V - 240 VRated frequency range50 Hz - 60 HzOperating voltage range90 V - 264 VOperating line frequency range47 Hz - 63 HzMax. output of single power supply280 WPower factor correction/active poweractiveMonitor outletSwitchedPower consumptionSee white paper Energy ConsumptionPower consumption noteSee white paper Energy ConsumptionInk to Energy White Paperhttp://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712Heat dissipationSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionStandard noise operation mode: CPU<br>50% load2x4 G8, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise operation mode: HDD<br>50% load3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  | power supply efficiency (at 230V <sup>.</sup> 10% / 20% / 50% / 100% load) · 84% / 90% / 92% / 91% |  |  |
| Rated frequency range       50 Hz - 60 Hz         Operating voltage range       90 V - 264 V         Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Related Processors for noise       Intel® Core™ i7 6700         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: Idle       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Operating voltage range       90 V - 264 V         Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Power consumption note       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Standard noise operation mode: CPU       3.4 B/ DD, DDD, Windows<br>According to ISO 7779: 2010, ECMA-74         Standard noise operation mode: CPU       3.2 B / 19 dB(A) Bystander; 24 dB(A) Operator position         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Operating line frequency range       47 Hz - 63 Hz         Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Standard noise notes / description       According to ISO 7779:2010, ECMA-74         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: Idle       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Max. output of single power supply       280 W         Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       Heat dissipation         Heat dissipation notes       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption         Related Processors for noise       Intel® Core™ i7 6700         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: IdDD       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | , , , ,                                  |  |  |  |
| Power factor correction/active power       active         Monitor outlet       Switched         Power consumption       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       Heat dissipation notes         See white paper Energy Consumption       Noise emission         Related Processors for noise       Intel® Core™ 17 6700         Standard noise entission       2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         50% load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Monitor outletSwitchedPower consumptionSee white paper Energy ConsumptionPower consumption noteSee white paper Energy ConsumptionLink to Energy White Paperhttp://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712Heat dissipationSee white paper Energy ConsumptionHeat dissipation notesSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionNoise emissionIntel® Core™ i7 6700Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise operation mode: CPU3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator positionStandard noise operation mode: HDD<br>load3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Power consumption         Power consumption note       See white paper Energy Consumption         Link to Energy White Paper       http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712         Heat dissipation       Kelest dissipation notes       See white paper Energy Consumption         Noise emission       See white paper Energy Consumption       Noise emission         Related Processors for noise       Intel® Core™ i7 6700       Standard noise emission       2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | •  |  |  |  |
| Power consumption noteSee white paper Energy ConsumptionLink to Energy White Paperhttp://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712Heat dissipationHeat dissipation notesHeat dissipation notesSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionRelated Processors for noiseIntel® Core™ i7 6700Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise operation mode: V descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: HDD<br>Ioad3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  | Switched   |  |  |
| Link to Energy White Paperhttp://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712Heat dissipationSee white paper Energy ConsumptionNoise emissionSee white paper Energy ConsumptionRelated Processors for noiseIntel® Core™ i7 6700Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU<br>Ioad3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator positionStandard noise operation mode: HDD<br>Ioad3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position  |  |  |  |  |
| Heat dissipation         Heat dissipation notes       See white paper Energy Consumption         Noise emission       Intel® Core™ i7 6700         Related Processors for noise       Intel® Core™ i7 6700         Standard noise emission       2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: Idle       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Heat dissipation notesSee white paper Energy ConsumptionNoise emissionIntel® Core™ i7 6700Related Processors for noiseIntel® Core™ i7 6700Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU<br>50% load3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator positionStandard noise operation mode: HDD<br>load3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Link to Energy White Paper               | http://docs.ts.fujitsu.com/dl.aspx?id=800b73a4-2c2d-40f4-a2d3-9fc888160712                         |  |  |
| Noise emission       Intel® Core™ i7 6700         Standard noise emission       2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         Standard noise operation mode: HDD<br>load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |  |  |
| Related Processors for noiseIntel® Core™ i7 6700Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU<br>50% load3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator positionStandard noise operation mode: HDD<br>load3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Heat dissipation notes                   | See white paper Energy Consumption   |  |  |
| Standard noise emission2x4 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74Standard noise notes / descriptionA-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))Standard noise operation mode: CPU<br>50% load3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator positionStandard noise operation mode: HDD<br>load3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator positionStandard noise operation mode: Idle3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Noise emission                           |  |  |  |
| According to ISO 7779:2010, ECMA-74         Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         50% load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD load       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Related Processors for noise             | Intel® Core™ i7 6700   |  |  |
| Standard noise notes / description       A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))         Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         50% load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: Idle       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position  | Standard noise emission                  |  |  |  |
| Standard noise operation mode: CPU       3.4 B / 20 dB(A) Bystander; 24 dB(A) Operator position         50% load       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Standard noise operation mode: HDD       3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         Ioad       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position  |  |  |  |  |
| 50% load         Standard noise operation mode: HDD         3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position         load         Standard noise operation mode: Idle         3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | •  |  |  |  |
| load     Standard noise operation mode: Idle     3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position  | •  | 3.4 B / 20 dB(A) Bystander; 24 dB(A) Uperator position   |  |  |
| Standard noise operation mode: Idle       3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   | Standard noise operation mode: HDD       | 3.2 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |
|  |  |  |  |  |
|  | Standard noise operation mode: Idle mode | 3.3 B / 19 dB(A) Bystander; 21 dB(A) Operator position   |  |  |

| Noise emission   |   |  |  |  |  |
|--|---|--|--|--|--|
| Standard noise operation mode: ODD                     | 4.5 B / 31 dB(A) Bystander; 36 dB(A) Operator position  |  |  |  |  |
| load   | 2.2  D (10  dD/A) Distance 20 dD/A) Operator assisted   |  |  |  |  |
| Standard noise operation mode: Office applications 2.0 | 3.2 B / 19 dB(A) Bystander; 20 dB(A) Operator position  |  |  |  |  |
| Blue angel noise emission according                    | According to ISO 7779:2010, ECMA-74   |  |  |  |  |
| certification  | for max. possible configuration   |  |  |  |  |
| Blue angel noise notes / description                   | A-weighted sound power level Lwad (in B); 1B = 10dB   |  |  |  |  |
| Blue angel noise operation mode: HDD                   | 3.5 B = 35 dB (A)   |  |  |  |  |
| load   |   |  |  |  |  |
| Blue angel noise operation mode: Idle mode             | 3.4 B = 34 dB (A)   |  |  |  |  |
| Blue angel noise operation mode: ODD load              | 4.6 B = 46 dB (A)   |  |  |  |  |
| Dimensions / Weight / Environmental                    |   |  |  |  |  |
| Dimensions (W x D x H)                                 | 332 x 338 x 89 mm   |  |  |  |  |
| . ,  | 12.68 x 13.31 x 3.51 inch   |  |  |  |  |
| Operating position                                     | horizontal / vertical (optional, feet needed)   |  |  |  |  |
| Weight   | 8 kg  |  |  |  |  |
| Weight (lbs)   | 17.64 lbs   |  |  |  |  |
| Weight notes   | Actual weight may vary depending on configuration   |  |  |  |  |
| Operating ambient temperature                          | 10 - 35 °C (50 - 95 °F)   |  |  |  |  |
| Operating relative humidity                            | 5 - 85 % (relative humidity)  |  |  |  |  |
| Compliance   |   |  |  |  |  |
| Product  | ESPRIMO D756/E90+   |  |  |  |  |
| Model  | DTF   |  |  |  |  |
| Germany  | TÜV GS  |  |  |  |  |
| Europe   | CE  |  |  |  |  |
| USA/Canada   | FCC Class B   |  |  |  |  |
|  | cCSAus  |  |  |  |  |
| Global   | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>ENERGY STAR® 6.1 (dedicated regions)<br>EPEAT® Gold (dedicated regions)   |  |  |  |  |
| China  | CCC (planned)   |  |  |  |  |
| Compliance link  | http://globalsp.ts.fujitsu.com/sites/certificates   |  |  |  |  |
| Additional Software                                    |   |  |  |  |  |
| Additional software (preinstalled)                     | Adobe® Reader® (pdf reader)<br>McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version)<br>Win7: Fujitsu Recovery (hard disk based recovery)<br>Win8: Microsoft Push Button Recovery (hard disk based recovery)<br>Microsoft Office (buy license to activate the pre-installed Microsoft Office) |  |  |  |  |
| Additional software (optional)                         | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD BD (playback software for Blu-ray Disc™)<br>CyberLink PowerDVD DVD (playback software for DVD)<br>Nero Essentials XL   |  |  |  |  |
| Manageability  |   |  |  |  |  |
| Manageability technology                               | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>Intrusion switch (optional)<br>WoL (Wake on LAN)<br>Intel® Standard Manageability (depending on processor)   |  |  |  |  |

| Managaahilitu                           |   |  |  |  |
|---|---|--|--|--|
| Manageability<br>Manageability software | DeskView Client   |  |  |  |
| manageability softwale                  | DeskView Chent<br>DeskView Instant BIOS Management  |  |  |  |
| DeskView components                     | Inventory Management  |  |  |  |
|   | BIOS Management   |  |  |  |
|   | Driver Management   |  |  |  |
|   | Security Management<br>Alarm Management   |  |  |  |
| Supported standards                     | DMI (Desktop Management Interface)  |  |  |  |
|   | SMBIOS (System Management BIOS)   |  |  |  |
|   | PXE (Preboot Execution Environment)   |  |  |  |
|   | WMI (Windows Management Instrumentation)<br>WBEM (Web Based Enterprise Management)                                  |  |  |  |
|   | CIM (Common Information Model)  |  |  |  |
| Security                                |   |  |  |  |
| Physical Security                       | Kensington Lock support   |  |  |  |
|   | Eye for padlock   |  |  |  |
|   | Integrated cabinet lock (optional)  |  |  |  |
| System and BIOS Security                | Embedded security (TPM 2.0)<br>EraseDisk (optional)   |  |  |  |
|   | Boot sector virus protection  |  |  |  |
|   | Write protect option for the Flash EPROM  |  |  |  |
|   | Control of all USB interfaces   |  |  |  |
|   | External USB ports can be disabled separately<br>Control of external interfaces                                     |  |  |  |
| User Security                           | User and supervisor BIOS password   |  |  |  |
| ,                                       | Hard disk password  |  |  |  |
|   | Access protection via external SmartCard reader (optional)  |  |  |  |
|   | Access protection via internal SmartCard reader (optional)<br>Workplace Protect (secure authentication solution)    |  |  |  |
| Workplace Embedded Tools                | Auto BIOS Update via Fujitsu Server   |  |  |  |
| •                                       | Auto BIOS Update via customer server (optional)   |  |  |  |
|   | Easy PC Protection (optional)   |  |  |  |
| Miscellaneous                           |   |  |  |  |
|   | Keyboard on (Special Fujitsu keyboard required)   |  |  |  |
|   | Thermal management<br>Low Power Active Mode   |  |  |  |
|   | Extended lifetime   |  |  |  |
| Serviceability                          |   |  |  |  |
|   | EasyFix   |  |  |  |
|   | EasyChange for HDD  |  |  |  |
|   | EasyChange for optical drives   |  |  |  |
| Packaging information                   |   |  |  |  |
| Packaging dimension (mm)                | 467 x 265 x 540 mm  |  |  |  |
| Packaging dimension (inch)              | 18.39 x 10.43 x 21.26 inch  |  |  |  |
| Max. quantity / pallet                  | 28  |  |  |  |
| Material - Weight (g) Carton            | 1180 g  |  |  |  |
| Material - Weight (lbs) Carton          | 2.6 lbs   |  |  |  |
| Material - Weight (g) EPS / PS          | 180 g   |  |  |  |
| Material - Weight (lbs) EPS / PS        | 0.4 lbs   |  |  |  |
| Material - Weight (g) PE                | 60 g  |  |  |  |
| Material - Weight (lbs) PE              | 0.13 lbs  |  |  |  |
| Packaging notes                         | printed user documentation is bleached in chlorine free process   |  |  |  |
| Warranty                                |   |  |  |  |
| Warranty period                         | 1 year (for countries in EMEIA)   |  |  |  |
| Warranty type                           | Bring-In / Onsite Service (for countries within region EMEIA, for all other countries depending on local regulation |  |  |  |
|   |   |  |  |  |

| Warranty   |  |  |  |
|--|--|--|--|
| Warranty Terms & Conditions                      | http://support.ts.fujitsu.com/warranty       |  |  |
| Product Support Services - the perfect extension |  |  |  |
| Recommended Service                              | 9x5, Onsite Response Time: Next Business Day |  |  |
| Spare Parts availability                         | 5 years                                      |  |  |
| Service Weblink                                  | http://www.fujitsu.com/fts/services/support  |  |  |

### **Recommended Accessories**

| Display B24-8 TE Pro             | The FUJITSU Display B24-8 TE Pro is made for intensive office work. With visual and mechanical ergonomics this marble-grey display enables fatigue-free working for hours in front of the screen. The large 60.5 cm (23.8-inch) screen allows you to keep always track of all open applications. This high-quality display works unfailingly around the clock. Easy connectivity, manageability and usability help you increase your productivity. | Order Code:<br>S26361-K1577-V140                     |
|----------------------------------|--|--|
| Mouse M440 ECO                   | Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.  | Order Code:<br>S26381-K450-L200                      |
| SOUNDSYSTEM DS E2000 Air         | The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.  | Order Code:<br>S26391-F7128-L600                     |
| UC&C USB Headset Stereo<br>H650e | The UC&C USB Headset Stereo H650e is the ultimate in style and functionality. Long, uncomfortable work calls are a thing of the past thanks to the cushioned ear pads and crystal clear sound. Adjustable headband and microphone provides the perfect fit for everyone. Optimized for Microsoft® Lync™ the headset displays a red 'in-call' LED to let your co-workers know when you're available, thus helping to boost office productivity.     | Order Code:<br>S26391-F7139-L10                      |
| Keyboard KBPC PX ECO             | Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.   | S26381-K341-L1** (**:<br>country specific variation) |

### More information

### Fujitsu OPTIMIZATION Services

In addition to FUJITSU Desktop ESPRIMO D756/ E90+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

#### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### **Computing Products**

www.fujitsu.com/global/products/computing/

#### Software

www.fujitsu.com/software/

#### More information

Learn more about FUJITSU Desktop ESPRIMO D756/E90+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/fts/ESPRIMO

#### Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www. fujitsu.com/global/about/environment



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