Fujitsu recommends Windows® 7.

Data Sheet
Fujitsu ESPRIMO Q900
Desktop PC

The Mini with More PC per cm²

The Fujitsu ESPRIMO Q900 delivers excellent performance, energy efficiency and manageability in a mini PC. An Intel® Core™ i3 or i5 processor and Intel® vPro™ technology deliver professional computing and management. Its stylish design is also practical, with two front USB 3.0 ports for lightning fast connections.

An elegant PC for challenging tasks
Eye-catcher on every desk with a modern and exclusive design
- Fully equipped mini PC with a volume of 1.6 liters weighing 1.4 kg

A black shell and a green core
The most energy-efficient computer of our Fujitsu ESPRIMO series reduces your energy consumption
- Intel® Mobile Technology for 13-watt power consumption in idle mode, extended power management settings and an up to 90% energy efficient AC adapter

Small, flexible and powerful
Intelligent performance using the latest Intel technology and high flexibility to meet all requirements
- 2nd generation Intel® Core™ i5 processor, genuine Windows® 7 Professional, up to 8 GB memory, 500 GB hard disk drive, 5 USB 2.0 ports, 2 USB 3.0 ports, a display port and multi-card reader

System management
Simple system administration for complex IT infrastructures
- Intel® vPro™ technology (depending on CPU) and DeskView manageability

Quiet
Pleasant working environment due to an extremely quiet system
- New fan concept for even lower noise levels

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[Logos and certifications]
## Components

### Processor
- Intel® Core™ i5-2520M processor (2 Cores / 4 Threads, 2.5 GHz, 3 MB, Intel® HD Graphics 3000)
- Intel® Core™ i3-2330M processor (2 Cores / 4 Threads, 2.20 GHz, 3 MB, Intel® HD Graphics 3000)
- Intel® Core™ i3-2310M processor (2 Cores / 4 Threads, 2.10 GHz, 3 MB, Intel® HD Graphics 3000)
- Intel® Pentium® processor B940 (2 Cores / 2 Threads, 2.00 GHz, 2 MB, Intel® HD Graphics)
- Intel® Celeron® processor B810 (2 Cores / 2 Threads, 1.60 GHz, 2 MB, Intel® HD Graphics)
- Intel® Celeron® processor B800 (2 Cores / 2 Threads, 1.50 GHz, 2 MB, Intel® HD Graphics)

* Processor only for SMB, education and government
** Processor only for SMB

Intel® vPro™ Logo with Intel® Core i5-2520M processor.

### Operating systems
- Operating system
  - Genuine Windows® 7 Home Basic (EM) 32-bit
  - Genuine Windows® 7 Home Premium 64-bit
  - Genuine Windows® 7 Professional 32-bit
  - Genuine Windows® 7 Professional 64-bit

- Operating system compatible
  - Genuine Windows Vista®
  - Genuine Windows® XP

- Operating system notes
  - Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via [http://support.ts.fujitsu.com](http://support.ts.fujitsu.com)

### Memory modules
- 2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1333 MHz, PC3-10600, SO DIMM
- 4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1333 MHz, PC3-10600, SO DIMM

### Hard disk drives (internal)
- SSD SATA, 128 GB, 2.5-inch, full disk encryption
- SSD SATA, 128 GB, 2.5-inch
- SATA, 5400 rpm, 250 GB, 2.5-inch
- HDD SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
- HDD SATA II, 5400 rpm, 500 GB, 2.5-inch*
- HDD SATA II, 5400 rpm, 320 GB, 2.5-inch*

* Disk imaging software of the customer must be 4k sector size / advanced format ready
Up to 18 GB of HDD space is reserved for system recovery

### Hard disk notes

### Graphics add on cards (optional)
- DP to DVI-D (single link) Adapter Cable

### Drives (optional)
- Blu-ray Combo SATA Slot-in slim
- Card Reader 8-in-1 ESPRIMO Q
- DVD Super Multi Slot-in slim

### Interface add on cards/components (optional)
- WLAN 2x2 agn
- Bluetooth Q900

### Base unit
- ESPRIMO Q900

### Mainboard
- Formfactor: proprietary
- Chipset: Intel® QM67
- Processor socket: rPGA 989A/B
- Processor quantity maximum: 1
- Memory slots: 2 SDIMM (DDR3, 1333 MHz)
- Memory frequency: 1333 MHz
Mainboard

Memory notes  
Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same In configurations with 4 GB the visible memory may be reduced to approximately 3.5 GB or less (for 32 bit operating systems, depending on system configuration)

LAN  
10/100/1000 MBit/s Intel® 82579 LM

Integrated WLAN  
1 (optional)

BIOS version  
AMI Aptio 4.6

BIOS features  
BIOS Flash EPROM update by software  
Recovery BIOS  
Unified Extensible Firmware Interface (UEFI)

Audio codec  
Realtek ALC662

Audio features  
Support of high-definition audio for S/PDIF output with up to 5.1 channels

I/O controller on board

Controller functions  
Serial ATA II (3 Gbit)  
Serial ATA III (6 Gbit)  
NCQ  
AHCI

Interfaces

Audio: line-in  
1

Audio: line-in / microphone  
1

Audio: line-out / headphones / SPDIF  
1 (optical)

USB 2.0 total  
5

USB 3.0 total  
2

USB front  
2

USB rear  
5

VGA  
1 (via DVI to VGA adapter, part of shipment)

DisplayPort  
1

DVI  
1 (DVI-I)

Ethernet (RJ-45)  
1

Kensington Lock support  
1

Interface Module notes  
Anytime USB charge functionality

Input device / components

Optical USB tilt wheel mouse

Drive bays

Drive bays total  
2

2.5-inch bays  
1

5.25-inch external bays  
1

Drive bay notes  
slim slot-in

Graphics on board

Graphics brand name  
Intel® HD Graphics or HD Graphics 3000 (depending on CPU)

Shared video memory  
up to 1759 MB

Refresh rate 1024 x 768 (recommended / max.)  
- / -

Refresh rate 1280 x 1024 (recommended / max.)  
- / -

Refresh rate 1600 x 1200 (recommended / max.)  
- / -
Fujitsu recommends Windows® 7.

### Graphics on board

<table>
<thead>
<tr>
<th>TFT resolution (VGA)</th>
<th>1024 x 768 pixel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1280 x 1024 pixel</td>
</tr>
<tr>
<td></td>
<td>1360 x 768 pixel</td>
</tr>
<tr>
<td></td>
<td>1440 x 900 pixel</td>
</tr>
<tr>
<td></td>
<td>1600 x 900 pixel</td>
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<tr>
<td></td>
<td>1600 x 1200 pixel</td>
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<tr>
<td></td>
<td>1680 x 1050 pixel</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080 pixel</td>
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<tr>
<td></td>
<td>1920 x 1200 pixel</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TFT resolution (DVI)</th>
<th>1360 x 768 pixel</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1440 x 900 pixel</td>
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<tr>
<td></td>
<td>1600 x 900 pixel</td>
</tr>
<tr>
<td></td>
<td>1680 x 1050 pixel</td>
</tr>
<tr>
<td></td>
<td>1920 x 1080 pixel</td>
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<tr>
<td></td>
<td>1920 x 1200 pixel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TFT resolution (DisplayPort)</th>
<th>1360 x 768 pixel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1440 x 900 pixel</td>
</tr>
<tr>
<td></td>
<td>1600 x 900 pixel</td>
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<td></td>
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<td>1920 x 1080 pixel</td>
</tr>
<tr>
<td></td>
<td>1920 x 1200 pixel</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics features</th>
<th>DirectX® 10.1 support</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HDCP support</td>
</tr>
<tr>
<td></td>
<td>Dual display support</td>
</tr>
<tr>
<td></td>
<td>OpenGL® 2.1</td>
</tr>
</tbody>
</table>

### Graphics notes

- 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

<table>
<thead>
<tr>
<th>Power efficiency note</th>
<th>power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage range</td>
<td>100 V - 240 V (AC Input)</td>
</tr>
<tr>
<td>Operating line frequency range</td>
<td>47 Hz - 63 Hz</td>
</tr>
<tr>
<td>Max. output of single power supply</td>
<td>external (90W)</td>
</tr>
</tbody>
</table>

### Power consumption

- See white paper Energy Consumption

### Heat dissipation

- See white paper Energy Consumption

### Noise for standard configuration (HDD, ODD)

<table>
<thead>
<tr>
<th>Noise emission</th>
<th>According to ISO9296</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related Processors for noise</td>
<td>Intel® Core i5-2540M</td>
</tr>
<tr>
<td>Noise Operation mode 1: ODD load (Blue angel requirement)</td>
<td>4.6 B / 32 dB(A)</td>
</tr>
<tr>
<td>Noise Operation mode 2: HDD load (Blue angel requirement)</td>
<td>3.3 B / 18 dB(A)</td>
</tr>
<tr>
<td>Noise Operation mode 3: CPU 90% load (Blue angel requirement)</td>
<td>4.1 B / 27 dB(A)</td>
</tr>
<tr>
<td>Noise Operation mode 4: High load (Blue angel requirement)</td>
<td>4.1 B / 27 dB(A)</td>
</tr>
<tr>
<td>Noise Operation mode 5: Office applications</td>
<td>3.3 B / 18 dB(A)</td>
</tr>
<tr>
<td>Idle mode (Blue Angel requirement)</td>
<td>3.3 B / 19.0 dB(A)</td>
</tr>
</tbody>
</table>
### Noise for standard configuration (HDD, ODD)

Noise notes / description: Noise for standard configuration CPU, HDD, ODD; A weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)), (bystander position) (ISO9296)

### Dimensions / Weight / Environmental

<table>
<thead>
<tr>
<th>Dimensions (W x D x H)</th>
<th>165 x 168 x 57 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating position</td>
<td>Backpack solution (optional)</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 1.4 kg</td>
</tr>
<tr>
<td>Weight notes</td>
<td>Actual weight may vary depending on configuration</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>5 - 35°C</td>
</tr>
</tbody>
</table>

### Compliance

| Product                | ESPRIMO Q900          |
|                       | Model                | MPC-D1009              |
|                       | Germany              | Blauer Engel / Blue Angel |
|                       | Europe               | CE                     |
|                       | Nordic Swan          |                        |
| Global                | RoHS (Restriction of hazardous substances) |
|                       | WEEE (Waste electrical and electronic equipment) |
|                       | Microsoft Operating Systems (HCT / HCL entry / WHQL) |
|                       | ENERGY STAR®         |                        |
|                       | EPEAT® Gold (dedicated regions) |

### Compliance link

https://sp.ts.fujitsu.com/sites/certificates/

### Additional Software

**Additional software (preinstalled)**

- Nero Essentials S (burning software)
- Fujitsu Recovery (Hard Disk Based Recovery)
- Norton Internet Security (incl. Firewall) 60 days version
- Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.

**Additional software (optional)**

- Recovery DVD for Windows®
- Drivers & Utilities DVD (DUDVD)
- Nero 9 Essentials XL
- CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)

### Manageability

**Manageability technology**

- PXE 2.1 Boot code
- Wake up from S5 (off mode)
- iAMT 7.0
- DeskUpdate Driver management

**Manageability software**

- DeskView 10.x client management including:
  - DASH 1.1 remote system management

**DeskView components**

- On/Offline remote client management
- Detailed system inventory management and reports
- BIOS Management
- Remote power management
- System notifications
- Security Remote Control
- DeskView Helpdesk Integration
- WoL (Wake on LAN)

**Manageability link**

- http://ts.fujitsu.com/manageability
- http://www.altiris.com/fujitsu

### Security

**System protection**

- Kensington Lock support
Fujitsu recommends Windows® 7.

Security

Audit proof protection
- Write protect option for the Flash EPROM
- Embedded security (TPM 1.2)
- Control of all USB interfaces
- External USB ports can be disabled separately
- Control of external interfaces

Access protection
- User and supervisor BIOS password
- Hard disk password
- Optional: Access protection via external SmartCard reader

Packaging information

Packaging dimension 395x198x284 mm
Max. quantity / pallet 48
Material - Weight (g) Carton 670g
Material - Weight (g) EPS / PS appr. 10 g
Material - Weight (g) PE appr. 125 g
Packaging notes printed user documentation is bleached in chlorin free process

Warranty

Standard Warranty 3 years
Service level Bring-In / On-Site Service (depending on country)
Recommended Service 5x9, Response Time: Next Business Day
Spare Parts availability 5 years
Service Weblink http://ts.fujitsu.com/Supportservice
Fujitsu platform solutions

In addition to Fujitsu ESPRIMO Q900, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as a Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

Fujitsu recommends Windows® 7.

More information

Learn more about Fujitsu ESPRIMO Q900, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

http://ts.fujitsu.com/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 resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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