

**Windows®. Life without Walls™.**  
**Fujitsu recommends Windows 7.**

# DATASHEET

## FUJITSU ESPRIMO P9900 0-WATT

### THE INNOVATIVE 0-WATT PC

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#### **ESPRIMO P9900 0-WATT**

As an 0-Watt PC, the ESPRIMO P9900, equipped with innovative technology from Fujitsu and its power-saving miracle and the ideal companion for all highly demanding business applications - Made of specially selected material and, in addition to the 0 Watt function, equipped with further save options, such as a switched monitor outlet and power save management, this ESPRIMO micro PC already meets today the legal requirements of tomorrow. Furthermore, this microtower, equipped with a highly efficient power supply of up to 89%, meets the criteria of ENERGY STAR® 5.0. Top performance and energy savings for all requirements.

#### **0-WATT PC**

Cost savings by completely reducing off-mode losses

- Patented function for 0-Watt power consumption in off and hibernating mode with simultaneous management in a time slot that can be optionally set

#### **ENVIRONMENTALLY CONSCIOUS PRODUCT WITH ENERGY STAR 5.0 CERTIFICATION**

Your contribution to environmental protection for the continued existence of our planet

- Halogen-free mainboard, sophisticated product concept for the entire lifecycle

#### **HIGHEST ENERGY EFFICIENCY COUPLED WITH INTELLIGENT PERFORMANCE**

The best-in-class regarding power consumption combined with new levels of performance

- State-of-the-art Intel® Core™ processors with Turbo Boost and hyperthreading technology and a power supply with up to 87% efficiency

## COMPONENTS

### PROCESSOR

Intel® Core™ i7 processor i7-860 (4 Cores / 8 Thre  
Intel® Core™ i5 processor i5-750 (4 Cores / 4 Thre  
Intel® Core™ i5 processor i5-680 (2 Cores / 4 Thre  
Intel® Core™ i5 processor i5-670 (2 Cores / 4 Thre  
Intel® Core™ i5 processor i5-660 (2 Cores / 4 Thre  
Intel® Core™ i5 processor i5-650 (2 Cores / 4 Thre  
Intel® Core™ i3 processor i3-540 (2 Cores / 4 Thre  
Intel® Core™ i3 processor i3-530 (2 Cores / 4 Thre  
Intel® Pentium® processor G6950 (2 Cores / 2 Thre

### OPERATING SYSTEM

<b>Operating system optional preinstalled</b>	Microsoft® Windows® 7 Home Premium Microsoft® Windows® 7 Professional TwinLoad Microsoft® Windows® XP Professional (DV
<b>Operating system compatible</b>	Linux Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® Vista®
<b>Operating system notes</b>	All Windows® 7 versions are Office 2007 ready. Please be aware that your Microsoft support for Win Phase has been reached. Additionally, please be aw for Windows XP due to the limited Windows XP sup certification on system level.

### MEMORY MODULES

2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-EC  
4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-EC

### HARD DISK DRIVES (INTERNAL)

SSD SATA, 128 GB, 2.5-inch  
SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.  
SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. bu  
SATA II. 7200 rpm. 500 GB. 3.5-inch. S.M.A.R.T.

**INTERFACE ADD ON CARDS/COMPONENTS (OPTIONAL)**

	WLAN III, 802.11g/Draft-n (Windows only)
	Parallel Interface
	Modem adapter kit (EU)
	Modem 56k incl. RJ11 modem cable
	Gigabit Ethernet PCIe x1
	FireWire PCI-Card IEEE1394
	eSATA Interface
	Dual serial card, PCI, EX-43092

**Base unit** ESPRIMO P9900 0-Watt

**MAINBOARD**

<b>Mainboard type</b>	D2912
<b>Formfactor</b>	µBTX
<b>Processor socket</b>	LGA 1156
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	4 DIMM (DDR3)
<b>Supported capacity RAM (max.)</b>	16 GB
<b>Memory frequency</b>	1333 MHz
<b>Memory notes</b>	Dual channel support. For dual channel performance, identical memory modules are required.
<b>LAN</b>	10/100/1000 MBit/s Intel® 82578 DM
<b>BIOS version</b>	Phoenix 6.0
<b>BIOS features</b>	BIOS Flash EPROM update by software Recovery BIOS
<b>Audio codec</b>	Realtek ALC663
<b>Audio features</b>	Internal speaker supports audio playback, High Definition Audio

**I/O CONTROLLER ON BOARD**

<b>Serial ATA total</b>	4
<b>Number of SATA</b>	2 (optional)

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**INPUT DEVICE / COMPONENTS**

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	Optical USB tilt wheel mouse
<b>Input devices (optional)</b>	Optical USB/PS2 tilt wheel mouse

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**DRIVE BAYS**

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<b>Drive bays total</b>	6
<b>3.5-inch internal bays</b>	2
<b>3.5-inch external bays</b>	2
<b>5.25-inch external bays</b>	2

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**SLOTS**

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<b>PCI-Express 2.0 x16</b>	1 x (230 mm) FlexySlot
<b>PCI-Express 2.0 x4 (mech. x16)</b>	1 x (230 mm) full height
<b>PCI (32-bit / 33 MHz)</b>	2 x (170 / 315 mm) full height

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**GRAPHICS ON BOARD**

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<b>Shared video memory</b>	up to 1759 MB
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<b>Refresh rate 1024 x 768 (recommended / max.)</b>	85 Hz / -
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<b>Refresh rate 1280 x 1024 (recommended / max.)</b>	85 Hz / -
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<b>Refresh rate 1600 x 1200 (recommended / max.)</b>	85 Hz / -
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<b>TFT resolution (VGA)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
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<b>TFT resolution (DVI)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
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**POWER CONSUMPTION**

<b>Power consumption note</b>	See white paper Energy Consumption 0-Watt mode automatically
<b>Link to Energy White Paper</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=1c12084a-5b">http://docs.ts.fujitsu.com/dl.aspx?id=1c12084a-5b</a>

**HEAT DISSIPATION**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**NOISE FOR STANDARD CONFIGURATION (HDD, ODD, FDD)**

<b>Noise emission</b>	According to ISO9296
<b>Related Processors for noise</b>	Intel® Core™ i5-670 ; Intel® Core™ i7-860 includ
<b>Noise Operation mode 1: ODD load (Blue angel requirement)</b>	4.4 B / 29 dB(A) ; 4.4 B / 29 dB(A)
<b>Noise Operation mode 2: HDD load (Blue angel requirement)</b>	3.7 B / 21 dB(A) ; 3.6 B / 21 dB(A)
<b>Noise Operation mode 3: CPU 90% load (Blue angel requirement)</b>	3.9 B / 24 dB(A) ; 3.9 B / 24 dB(A)
<b>Noise Operation mode 4: High load</b>	3.9 B / 23 dB(A) ; 3.9 B / 24 dB(A)
<b>Noise Operation mode 5: Office applications</b>	3.8 B / 22 dB(A) ; 3.6 B / 20 dB(A)
<b>Idle mode (Blue Angel requirement)</b>	3.7 B / 20 dB(A) ; 3.6 B / 20 dB(A)
<b>Noise notes / description</b>	A weighted sound power level Lw <sub>ad</sub> (in B) / workpla position

**DIMENSIONS / WEIGHT / ENVIRONMENTAL**

<b>Dimensions (W x D x H)</b>	203 x 390 x 392 mm
<b>Operating position</b>	Vertical
<b>Weight</b>	approx. 12 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35°C

**COMPLIANCE**

<b>Product</b>	ESPRIMO P9900
<b>Model</b>	M13W-D2912

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## MANAGEABILITY

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<b>Manageability features</b>	ASF 2.0 (Alert Standard Format) DeskUpdate Driver management PXE 2.1 Boot code BootP Boot Code including Bootmanage Administrat Wake up from S5 (off mode) Intrusion switch (optional) iAMT 6.0
<b>Manageability type</b>	DeskView 10.x client management including:
<b>DeskView features</b>	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Advanced alerts (ASF implementation) Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)

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## SECURITY

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<b>Physical security</b>	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock
<b>System security</b>	Boot sector virus 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
<b>User security</b>	User and supervisor BIOS password SystemLock 2 BIOS SmartCard Security Hard disk password Optional: Access protection via external SmartCard r Optional: Access protection via internal SmartCard r

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## SERVICEABILITY

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#### FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu ESPRIMO P9900 0-Watt, 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

#### MORE INFORMATION

Learn more about Fujitsu ESPRIMO P9900 0-Watt, 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 project for reducing burdens on the environment. Using our global know-how, we aim to