

# Data Sheet

## Fujitsu PRIMERGY MX130 S2 Server

### Micro server for macro results

With limited budgets and resources, small businesses must focus on maximizing productivity at minimum cost. PRIMERGY MX servers increase the productivity of small businesses. How? By providing affordable, uncomplicated, reliable server technology on which to centralize their IT services. PRIMERGY MX servers are ultra-compact and whisper quiet, making them perfect for small offices. Their reliability is proven by testing through 5000 boot cycles far more than other vendors do. The servers also minimize their environmental impact and operating costs through power supplies with a best-in-class energy efficiency of 85%.

PRIMERGY MX servers let you focus on your top priority: your customer not the IT!

#### **PRIMERGY MX130 S2**

The PRIMERGY MX130 S2 micro server is just what small businesses need. The MX130 S2 is a solid platform on which to base your file, web or print services. It increases your company's potential by offering server reliability, efficiency and great value. The running costs and environmental impact are micro too, thanks to the 85% efficient power supply unit. If you think of servers as complicated, space-eating machines, then think again. The MX130 S2 comes in an ultra-compact chassis which can also be used horizontally. And, best of all, it is so silent you will hardly know it is there. PRIMERGY MX130 S2 the micro server for macro results.



# Features and Benefits

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Main Features	Benefits
<ul style="list-style-type: none"><li>■ 24x7 performance, server ECC memory, onboard RAID 0/1/10 and optional Trusted Platform Module (TPM)</li><li>■ Up to 16GB DDR3 ECC RAM</li><li>■ Can integrate up to 4x 3.5 HDDs or up to 6x 2.5 HDDs</li><li>■ Ultra-compact form factor with less than 13 liters volume - can be used everywhere in either vertical or horizontal position</li><li>■ High energy efficiency with 85% efficiency power supply unit (PSU)</li></ul>	<ul style="list-style-type: none"><li>■ Higher data safety and reliability than using PCs with external USB drives or optical media</li><li>■ Share information by running office server applications</li><li>■ Flexible and expandable base unit</li><li>■ Ideal for all environments where space is scarce, e.g. small offices, retail environments or education</li><li>■ Benefit from Fujitsu's pioneering experience in Green IT - save money and minimize environmental impact</li></ul>

# Technical details

## Mainboard

Mainboard type	D3090
Chipset	AMD 880G
Processor quantity and type	1 x AMD Sempron™ / AMD Athlon™ II / AMD Phenom™ II (only available in Continental Europe, Middle East, Africa and India)

## Processor

Processor	AMD Athlon™ FX 4100 (4 Cores, 3.6 GHz, SLC: 8 MB)
	AMD Athlon™ II X2 220 (2 Cores, 2.8 GHz, SLC: 1 MB)
	AMD Athlon™ II X2 265 (2 Cores, 3.3 GHz, SLC: 2 MB)
	AMD Phenom™ II X6 1065T (6 Cores, 2.9 GHz, SLC: 9 MB)
	AMD Sempron™ 145 (1 Core, 2.8 GHz, SLC: 1 MB)

Memory slots	4
Memory slot type	DIMM (DDR3) ECC
Memory capacity (min. - max.)	2 GB - 16 GB
Memory protection	ECC
Memory notes	Mix and match possible, with dual channel operation better performance (2 modules with equal capacity necessary). Single channel (1 module) configuration possible.

## Memory options

Memory options	2 GB (1 module(s) 2 GB) DDR3, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, ECC, 1333 MHz, PC3-10600, DIMM

## Interfaces

USB ports	12 (2 x front, 6 x back, 4 x internal)
DVI	1 (Dual link DVI-I), ATI Radeon® HD 4250 (up to 2811MB) on board
Graphics (15-pin)	1 No dedicated 15-pin VGA port available. VGA is available via the supplied DVI to VGA adapter.
Audio: line-in	1
Audio: line-out	1
Audio: microphone	1
Audio: comments	For projects only
Serial connection	1 9pin, 16 byte FIFO, 16550 compatible
Mouse / Keyboard (PS/2)	2
LAN / Ethernet (RJ-45)	1 Gbit/s Ethernet

## I/O controller on board

RAID controller	6 port SATA with RAID 0/1/10 for HDDs
SATA Controller	SATA II
LAN Controller	BCM 57780, 10/100/1000 Mbit/s Ethernet, PXE-Boot by LAN via PXE-Server
Trusted Platform Module (TPM)	Infineon / 1.2 (option)

## Slots

PCI-Express 2.0 x4	1 x Low profile max. length 180mm
PCI-Express 2.0 x16	1 x Low profile max. length 180mm
PCI-Express x1	1 x Low profile max length 85mm
PCI-slots	1 x Low profile max. length 180mm
Slot Notes	PCI 32/33 MHz, 3.3V/5V
Storage drive bays	4 x 3.5-inch non hot-plug SATA

<b>Storage drive bay configuration</b>	Maximum 4x 3.5" HDDs possible. 2x HDD with easy change, 2x with screw-in. Alternatively 2.5" HDDs possible, max. 6x 2.5" possible. 2.5-inch HDDs available on project request.
<b>Accessible drive bays</b>	1 x 5.25/1.6-inch for backup devices or CD-RW/DVD
<b>Notes accessible drives</b>	1x slimline DVD accessible. Alternatively to slimline DVD a 4th 3.5" HDD can be used.
<b>Number of fans</b>	3
<b>Fan configuration</b>	Front-fan, CPU-fan, PSU-fan
<b>Fan notes</b>	Non hot plug
<b>Operating panel</b>	
<b>Operating buttons</b>	On/off switch
<b>Status LEDs</b>	Power (green)
<b>Operating systems</b>	
<b>Certified or supported operating systems and virtualization software</b>	Microsoft® Hyper-V™ Server 2008 R2 Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows Server® 2008 R2 Foundation Microsoft® Windows® Small Business Server Essentials 2011
<b>Operating system release link</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421">http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421</a>
<b>Operating system notes</b>	Novell® certification Red Hat® certification Support of other Linux derivatives on demand
<b>Server Management</b>	
<b>Dimensions / Weight</b>	
<b>Floor-stand (W x D x H)</b>	98 x 383 x 340 mm
<b>Dimension notes</b>	Dimensions in vertical position (excluding feet)
<b>Weight</b>	approx. 8 kg
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Environmental</b>	
<b>Operating ambient temperature</b>	10 - 35°C
<b>Operating environment</b>	FTS 04230 Guideline for Data Center (installation locations)
<b>Operating environment Link</b>	<a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4c6bf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4c6bf3230473</a>
<b>Noise emission</b>	According to ISO9296
<b>Sound pressure (LpAm)</b>	20 dB(A) (idle) / 20 dB(A) (operating); may vary according to configuration.
<b>Sound power (LWAd; 1B = 10dB)</b>	3.5B (idle) / 3.5B (operating); may vary according to configuration.
<b>Electrical values</b>	
<b>Power supply configuration</b>	1
<b>Max. output of single power supply</b>	250 W
<b>Power supply efficiency</b>	85%
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Rated current max.</b>	3.5 A - 1.5 A (100 V / 240 V)
<b>Active power (max. configuration)</b>	159 W
<b>Heat emission</b>	572.4 kJ/h (542.5 BTU/h)
<b>Compliance</b>	
<b>Product</b>	PRIMERGY MX130 S2
<b>Model</b>	DT8-D3090
<b>Germany</b>	GS
<b>Europe</b>	CE Class A * (planned)
<b>USA/Canada</b>	FCC Class A (planned) CSAc/us (planned) ULc/us (planned)

**Compliance**

<b>Global</b>	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment)
<b>Japan</b>	VCCI (planned)
<b>Russia</b>	GOST-R (planned)
<b>South Korea</b>	KC (planned)
<b>China</b>	CCC (planned)
<b>Australia/New Zealand</b>	C-Tick (planned)
<b>Taiwan</b>	BSMI (planned)
<b>Saudi Arabia</b>	SASO (planned)
<b>Compliance notes</b>	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
<b>Compliance link</b>	<a href="http://sp.ts.fujitsu.com/sites/certificates/">http://sp.ts.fujitsu.com/sites/certificates/</a>

# Components

<b>Storage disks</b>	HDD SATA, 1000 GB, 7200 rpm, 3.5-inch, economic HDD SATA, 500 GB, 7200 rpm, 3.5-inch, economic HDD SATA, 250 GB, 7200 rpm, 3.5-inch, economic HDD SATA, 3 Gb/s, 2000 GB, 7200 rpm, non hot plug, 3.5-inch, business critical HDD SATA, 3 Gb/s, 1000 GB, 7200 rpm, non hot plug, 3.5-inch, business critical HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, non hot plug, 3.5-inch, business critical
<b>Hard disk notes</b>	PRIMERGY MX130 S2 hard disks are not hot-plug. Only SATA HDDs supported.
<b>Backup Drives</b>	RDX Drive, 160 GB, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 2.0
<b>Optical drives</b>	DVD-ROM, SATA I DVD Super Multi, SATA I
<b>LAN Controller</b>	Ethernet Ctrl. 1 x 1 Gb Gigabit PCIe x1, DS Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCIe x4 D2745 Cu
<b>Warranty</b>	
<b>Standard Warranty</b>	1 year
<b>Service level</b>	On-site Service
<b>Maintenance and Support Services - the perfect extension</b>	
<b>Recommended Service</b>	5x9, Onsite Response Time: next business day
<b>Service Lifecycle</b>	5 years
<b>Service Weblink</b>	<a href="http://www.fujitsu.com/fts/services">http://www.fujitsu.com/fts/services</a>

# More information

## Fujitsu platform solutions

In addition to Fujitsu PRIMERGY MX130 S2, 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/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PRIMERGY MX130 S2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
<http://www.fujitsu.com/PRIMERGY>

## 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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## CONTACT

FUJITSU LIMITED  
Mies-van-der-Rohe-Straße 8  
80807 München  
Germany  
Website: [www.ts.fujitsu.com](http://www.ts.fujitsu.com)  
2012-02-09 CE-EN

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