

# DELL<sup>TM</sup> OPTIPLEX<sup>TM</sup> FX170

TECHNICAL GUIDEBOOK  
INSIDE THE OPTIPLEX FX170 THIN CLIENT



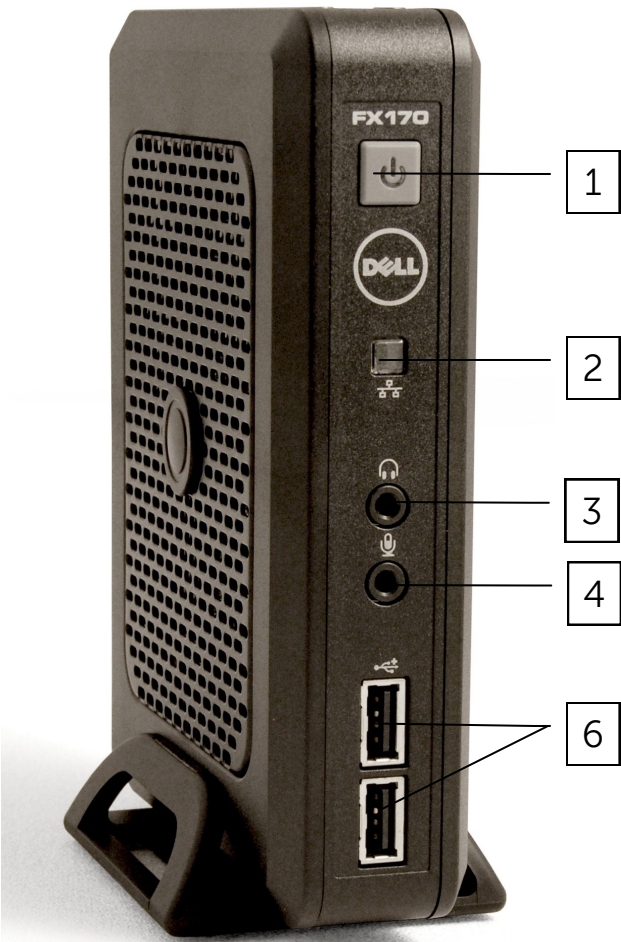
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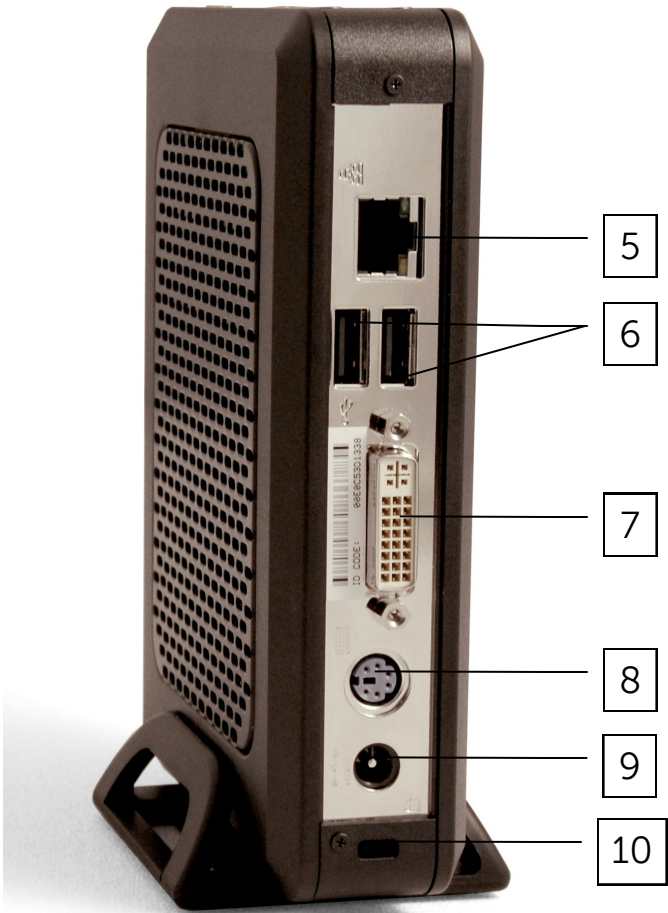
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FRONT AND BACK VIEW

Front



Back



Number	Name	Number	Name
1	Power Button	6	USB 2.0 Connectors (4)
2	Network Activity Indicator LED	7	DVI-I
3	Audio Line Out	8	PS/2
4	Microphone	9	Power Connector
5	Network Connector	10	Kensington Lock

## DETAILED ENGINEERING SPECIFICATIONS

Operating System for the FX170	WES 2009, WES 7, or DeTOS Operating System (NOTE: Offerings vary by country. For more information regarding the configuration of your computer, click Start>Help and Support. Then select the option to view information about your computer. *Choose your OS on the FX170.		
Processor	CPU / Chipsets		Intel Atom N270 1.6 GHz / Intel 945GSE + ICH7-M
Memory	RAM		1GB DDR2 RAM (WES 2009/DeTOS), 2GB DDR2 RAM (WES7)
Data Storage	DOM		2GB DOM (WES 2009), 4GB DOM (WES7), 1GB DOM (DeTOS)
Storage			x 1 (44 pins IDE port for DOM)
Display	Resolution		Up to 1920x1200 at 32 bit color
	Video Memory		Dynamic Video Memory Technology (DVMT) 3.0 supports up to 224MB of video memory
	Display Data Control		On-board Intel GMA 950
I/O Physical	USB (2.0)	Front	x 2
		Rear	x 2
	PS/2		x 1 (For keyboard, mouse, or optional PS/2 splitter cable)
	Video		x 1 DVI-I or
			X 1 VGA with included adapter or
			X 1 DVI-D + x 1 VGA with optional adapter
	Audio	Mic-In	x 1 3.5 mm jack
		Line-Out	x 1 3.5 mm jack
		Speaker	x 1 (Built-in 1W internal speaker)
Networking	LAN		x 1 (RJ-45, 10/100/1000 Base-T)
	WLAN		Netgear N600 Wireless Dual Band USB Adapter
			Netgear G64/N150 Wireless USB Micro Adapter
Environment	Temperature	Operation	32° to 95° F (0° to 35° C)
		Storage	-4° to 140° F (-20° to 60° C)
	Relative Humidity		20% to 80% non-condensing
Power	Power Supply		36W, DC 12V/3A external power adapter
Mounting	Foot Stand	Horizontal or Vertical	Vertical
	VESA Bracket (wall mount vertical only)		Metal mounting kit for VESA standard (Optional)
Security	Kensington Lock		Yes

## DETAILED ENGINEERING SPECIFICATIONS CONTINUED

Physical Characteristics	Chassis Housing		Plastic and metal
	Dimension / Weight	Thin Client	36 (W) x 156 (H) x 122 (D) mm / Net Weight: 0.75 KG
		Packing: Single Box	217 (W) x 85 (H) x 236 (D) mm / Gross Weight: 1.65 KG
		Packing: Carton	450 (W) x 265 (H) x 355 (D) mm / Gross Weight: 20 KG, 8 boxes in one carton

## POWER DETAILS

AC Parameters				
External Power Adapter Dimensions			110.9 mm (L) x 51.9 mm (W) x 33 mm (H)	
Power Supply Wattage			36W	
AC input Voltage Range			100-240 V	
AC input Current (max)			2A	
AC input Frequency			47HZ/63HZ	
Average Efficiency			>=78%	
Typical Efficiency (Active PFC)			84.8%	
DC Parameters				
+12.0v output			3A	
Max total power			36W	
BTUs/h (based on PSU max wattage)			123 BTU	
Compliance				
1watt requirement			Yes	
Blue Angel Compliant			No	
Climate Savers / 80Plus Compliant			No	
FEMP (CECP) Standby Power Compliant			No	
E Star Compliant			No	
3.0v CMOS battery (Type and estimated battery life)				
Brand	Type	Voltage	Composi- tion	Life
KTS	CR-2302 with wire	3V	Lithium	Continuous Discharge Under 15 kΩ Load to 2.0V End-Voltage. 23 ±3C Standard 1000 Hrs. Minimum Value 800h 0 ±3C Standard 850 Hrs. Minimum Value 680h

**AUDIO**

Integrated via 1708b High Definition Audio	
High Definition Stereo support	No
Number of Channels	2
Number of Bits / Audio resolution	16 and 24-bit resolution
Sampling rate (recording/playback)	Support 44.1K/48K/96K/192 kHz sample rates
Signal to Noise Ratio	98 dB DAC outputs, 90 dB for ADC inputs
Analog Audio	N/A
Dolby Digital	N/A
THX	N/A
Digital out (S/PDIF)	N/A
Audio Jack Impedance	
Microphone In	10K ohm
Headphone Out	50~65 ohm
Internal Speaker Power Rating	1Watt (peak) / 0.5Watt (average)

**COMMUNICATIONS - NETWORK ADAPTER (NIC)**

PCIE Realtek 8111dl-gr Ethernet LAN 10/100/1000	
External Connector Type	RJ45
Data Rates supported	10/100/1000 Mbps
Controller Details	
Controller bus architecture	PCIe-based interface
Integrated memory	N/A
Data transfer mode (example Bus-Master DMA)	N/A
Power consumption (full operation per data rate connection speed)	538mW (Max.)
Power consumption (standby operation)	227mW (Max.)
IEEE standards compliance (example 802.1P)	802.3
Hardware Certifications (example FCC, B, GS mark...)	N/A
Boot ROM Support	EEPROM (located in SPI)
Network Transfer Mode (example Full Duplex, Half Duplex)	
Network Transfer Rate (example 10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps)	10 Mb (full/half-duplex) 100 Mb (full/half-duplex) 1000 Mb (full-duplex)

## COMMUNICATIONS - NETWORK ADAPTER (NIC) CONTINUED

## PCIE Realtek 8111DL-GR Ethernet LAN 10/100/1000 continued

Management Capabilities	
Operating humidity	20% to 80% (non-condensing)
Manageability (examples WOL, PXE)	WOL, PXE 2.1
Management Capabilities Alerting	N/A

## BIOS DEFAULTS

System Configuration	
Integrated NIC	Enable
USB Controller	Enable
Serial Port	N/A
SATA Operation	N/A
SMART Reporting	N/A
Diskette Drive	N/A
Miscellaneous Devices	Enable (Front USB, Rear USB, PXE)
Drives	(IDE—0)
Video	
Primary Video	EGA/VGA
Performance	
Multiple Core Support	N/A
Intel® SpeedStep™	N/A
C States Control	N/A
Limit CPUID Value	Disable
HyperThread control	Enable
Virtualization Support	
Virtualization	N/A
VT for Direct I/O	N/A
Security	
Administrator Password	Not set
System Password	Not set
Password Changes	Enable
TPM Security	N/A
CPU XD Support	Enable
Computrace®	N/A
SATA-0 Password	N/A

**BIOS DEFAULTS CONTINUED**

Power Management	
AC Recovery	Power Off
Auto On Time	Disable
Deep Sleep Control	N/A
Fan Control Override	N/A
Wake on LAN	Enable
Maintenance	
Service Tag	Set by the factory
Asset Tag	Optional User Entry
SERR Message	N/A
Numlock LED	Enable
USB Emulation	Enable
Keyboard Errors	Default—No Error
POST HotKeys	Enable
Fast Boot	Thorough

**SERVICE AND SUPPORT**

**NOTE:** For more details on Dell Service Plans please to go to: [www.dell.com/service/service\\_plans](http://www.dell.com/service/service_plans)

3 Year Warranty <sup>1</sup>	Standard
ProSupport	Optional

<sup>1</sup> For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit [www.dell.com/warranty](http://www.dell.com/warranty).

<sup>2</sup> Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.

**SOFTWARE**

VMware View Ready	Yes
Citrix HDX Ready	Yes

**REGULATORY COMPLIANCE AND ENVIRONMENTAL**

Product related conformity assessment and regulatory authorizations including Product Safety, Electromagnetic Compatibility (EMC), Ergonomics, and Communication Devices relevant to this product may be viewed at [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance). The Regulatory Datasheet for this product is located at [http://www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).