

DELL<sup>TM</sup>

OPTIPLEX<sup>TM</sup>

FX170

TECHNICAL GUIDEBOOK—  
INSIDE THE OPTIPLEX FX170 THIN CLIENT



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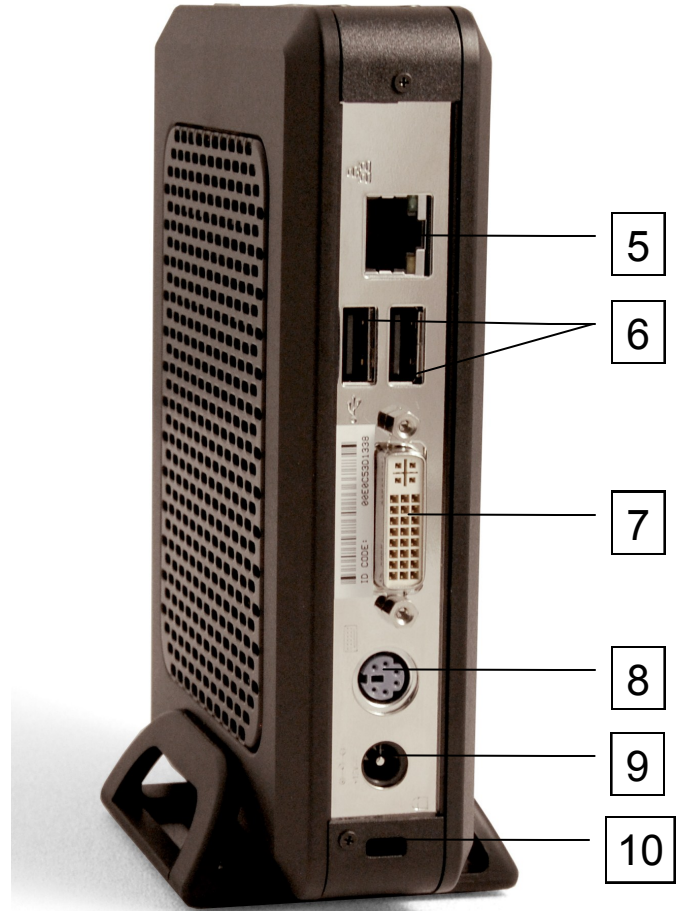
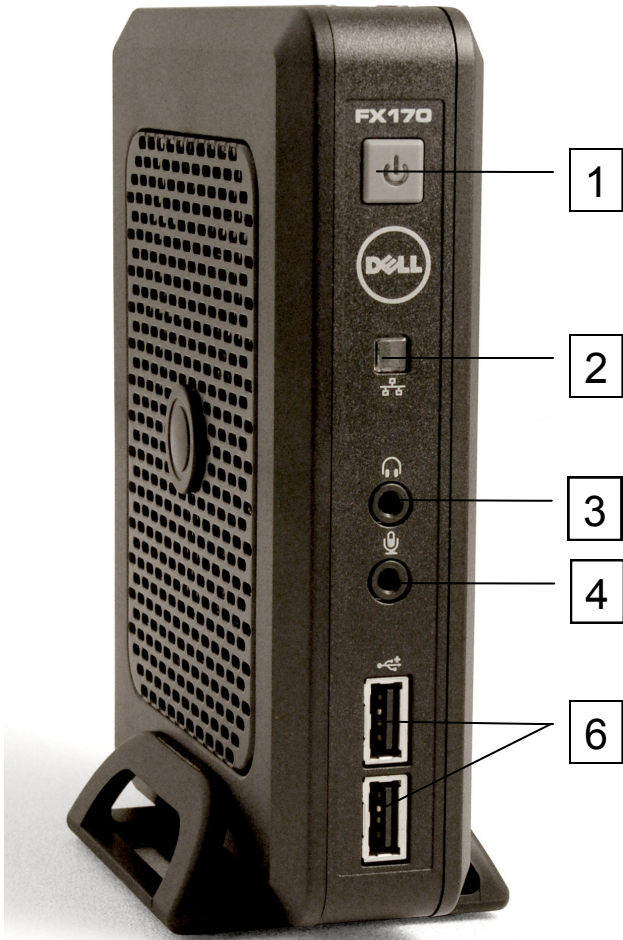
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FRONT AND BACK VIEW

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	Security Cable Slot

## MARKETING SYSTEM CONFIGURATIONS

NOTE: Offerings may vary by country. For more information regarding the configuration of your computer, click Start>Help and Support and select the option to view information about your computer.

\*Choose your OS on the FX170.

OPERATING SYSTEM for the FX170	WES 2009, WES7, or DeTOS Operating System
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## DETAILED ENGINEERING SPECIFICATIONS

### SYSTEM COMPONENTS DETAILS:

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
Audio	Speaker		x 1 (Built-in 1W internal speaker)
I/O Physical	USB (1.1/2.0)	Front	x 2
		Rear	x 2
	PS/2		x 1 (For keyboard, mouse or optional PS/2 splitter cable)
	Video	DVI	x 1 DVI-I (or x 1 VGA with included adapter)
	Audio	Mic-In	x 1 3.5 mm jack
		Line-Out	x 1 3.5 mm jack
Networking	LAN		x 1 (RJ-45, 10/100/1000 Base-T)
	WLAN		Optional (Linksys WUSB600N USB Network Adapter, sold separately)
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 (Option)
Security	Kensington Lock		Yes
Physical Characteristics	Chassis Housing		Plastic and metal
	Dimension / Weight	Thin Client	36 (W) x 156 (H) x 122 (D) mm / NW : 0.75 KG
		Packing : Single Box	217 (W) x 85 (H) x 236 (D) mm / GW : 1.65 KG
		Packing : Carton	450 (W) x 265 (H) x 355 (D) mm / GW : 20 KG, 8 boxes in one carton

**POWER DETAILS**

Power supply dimensions				
<b>Power Supply Wattage</b>		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%		
<b>DC parameters</b>				
+12.0v output		3A		
Max total power		36W		
Max combined 12.0v power (note: only if more than one 12v rail)		36W		
BTUs/h (based on PSU max wattage)		123 BTU		
<b>Compliance:</b>				
1watt requirement		Yes		
Blue Angel Compliant		No		
Climate Savers / 80Plus Compliant		No		
FEMP (CECP) Standby Power Compliant		No		
E Star Compliant		No		
<b>3.0v CMOS battery (Type and estimated battery life)</b>				
Brand	Type	Voltage	Composition	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**

<b>INTEGRATED VIA 1708B HIGH DEFINITION AUDIO</b>	<b>FX170</b>
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
<b>Audio Jack Impedance</b>	
Microphone In	10K ohm
Headphone Out	50~65 ohm
Internal Speaker Power Rating	1Watt (peak) / 0.5Watt (average)

**COMMUNICATIONS - NETWORK ADAPTER (NIC)**

<b>PCI-E REALTEK 8111DL-GR ETHERNET LAN 10/100/1000</b>	<b>FX170</b>
<b>External Connector Type</b>	RJ45
<b>Data Rates supported</b>	10/100/1000 Mbps
<b>Controller Details</b>	
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)
<b>Network Transfer Mode (example Full Duplex, Half Duplex)</b>	
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) (CONT.)

PCIE REALTEK 8111DL-GR  
ETHERNET LAN 10/100/1000 (CONT.)

FX170

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



## BIOS DEFAULTS

<b>System Configuration</b>	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)
<b>Video</b>	Primary Video:	EGA/VGA
<b>Performance</b>	Multiple Core Support:	N/A
	Intel® SpeedStep™:	N/A
	C States Control:	N/A
	Limit CPUID Value:	Disable
	HyperThread control:	Enable
<b>Virtualization Support</b>	Virtualization:	N/A
	VT for Direct I/O:	N/A
<b>Security</b>	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

<b>Power Management</b>	AC Recovery:	Power Off
	Auto On Time:	Disable
	Deep Sleep Control:	N/A
	Fan Control Override:	N/A
	Wake on LAN:	Enable
<b>Maintenance</b>	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)

	FX170
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**

	FX170
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).