Product release information

Product number

F3D32AA

Release date

7-Feb-2014

Country/region sold in

United States

Display

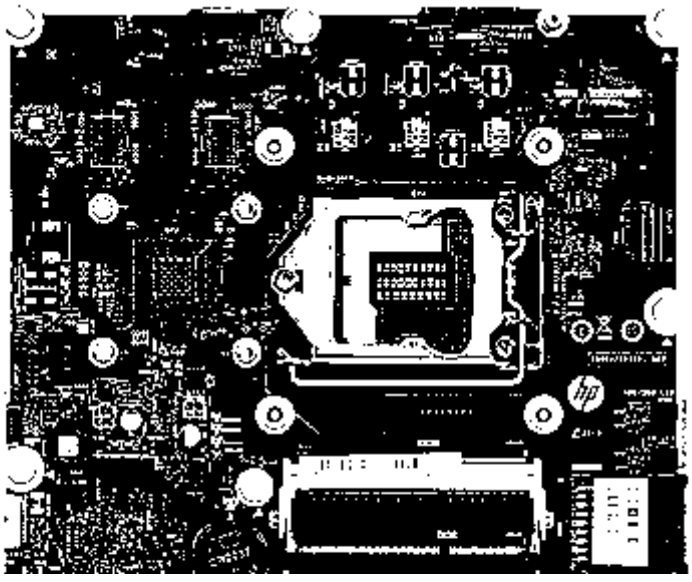
54.6 cm (21.5 in) touch-enabled IPS widescreen Full HD LED backlit display

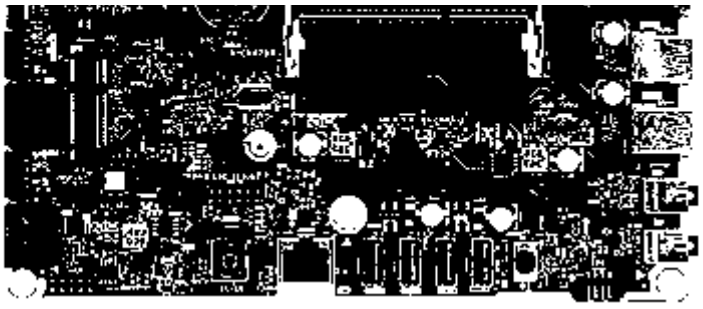
- Size: 54.6 cm (21.5 in) diagonal
- Native resolution: 1920 x 1080 (16:9 aspect ratio)

Motherboard

Lavender-U

Figure 1: Motherboard top view





- Manufacturer: T&I
- HP nanoAIX2: 19 cm (7.48 in) x 24 cm (9.45 in)
- Chipset: Intel H87
- Memory sockets: 2 x DDR3
- Expansion Slots: 1 x half-length mini card socket
- For more details, see Lavaredo-L motherboard specifications

Processor

Intel Pentium G3220T

- TDP: 35W
- Operating speed: Up to 2.6 GHz
- Number of cores: 2
- Socket: LGA 1150

Processor upgrade information

- TDP: up to 45 W
- Socket type: FCLGA1150
- Motherboard supports the following processors:

Processor	TDP	Integrated Graphics
Intel Celeron G1820T (Haswell) 2.4 GHz	35 W	Intel HD Graphics (GT1)
Intel Pentium G3220T	35 W	Intel HD Graphics (GT1)

(Haswell) 2.6 GHz Dual Core		
Intel Pentium G3240T (Haswell) 2.7 GHz Dual Core	35 W	Intel HD Graphics (GT1)
Intel Core i3-4130T (Haswell) 2.9 GHz Dual Core	35 W	Intel HD Graphics 4400 (GT2)
Intel Core i3-4150T (Haswell) 3.0 GHz Dual Core	35 W	Intel HD Graphics 4400 (GT2)
Intel Core i3-4330T (Haswell) 3.0 GHz Dual Core	35 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4570T (Haswell) 2.9 GHz Dual Core	35 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4590T (Haswell) 3.0 GHz Quad Core	35 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4670T (Haswell) 2.3 GHz Quad Core	45 W	Intel HD Graphics 4600 (GT2)
Intel Core i5-4690T (Haswell) 2.5 GHz Quad Core	45 W	Intel HD Graphics 4600 (GT2)
Intel Core i7-4765T (Haswell) 2.0 GHz Quad Core	35 W	Intel HD Graphics 4600 (GT2)

Memory

4 GB

- Amount: 4 GB
- Speed: PC3-12800 MB/s (runs at PC3-10600 in this system)
- Type: DDR3-1600

Memory upgrade information

- Dual channel memory architecture
- Two DDR3 SODIMM (204-pin) sockets
- Supports PC3-12800 (DDR3-1600)
- Supports 1 GB, 2 GB, 4 GB and 8 GB DDR3 SODIMMs

- Supports 1 GB, 2 GB, 4 GB and 8 GB DDR3 SODIMMS
- Supports up to 16 GB (unbuffered) on 64-bit computers

Video graphics

Intel HD Integrated Graphics

- The motherboard supports processors with the following Integrated Graphics:
  - Intel HD Graphics (GT1)
  - Intel HD Graphics 4400 (GT2)
  - Intel HD Graphics 4600 (GT2)
- Integrated graphics is combined with the installed processor.
- See the **Processor upgrade information** section of this document for detailed information.
- No discrete graphics card support

Sound/Audio

Integrated Audio

- Audio Codec: Realtek ALC3228-CG
- Audio jack presence detection

Speakers

- Channels: 2
- Power: 2 watts per channel

Networking

Wireless LAN 802.11b/g/n featuring Single-band (2.4Ghz) 1x1

Figure 2: Wireless card - top view





- Interface type: PCI express half-length mini card
- Data transfer speeds: up to 80 Mbps
- Transmission standards: 802.11 b/g/n
- Antennas: 1 internal antenna
- Single band: 2.4 GHz (b/g/n)
- Security:
  - Wired Equivalent Privacy (WEP) supports modes that have 64-bit, and 128-bit keys
  - Support for WPA-PSK and WPA2-PSK in Windows

LAN: 1000BASE-T

- Technology: Realtek RTL8151GH-CG
- Data transfer speeds: up to 10/100/1000 Mb/s
- Transmission standards: 1000BASE-T Gigabit Ethernet

Hard drive

1 TB



- Size: 1 TB
- Interface: SATA
- Rotational Speed: 7200 rpm

CD/DVD disc drive

Slim Tray SuperMulti DVD Burner

- Interface: SATA
- Data transfer rates up to 3,600 KB/s (CD read/write)
- Data transfer rates up to 10,800 KB/s (DVD read/write)
- Data buffer: 1 MB max.
- 8 cm disc: Supported

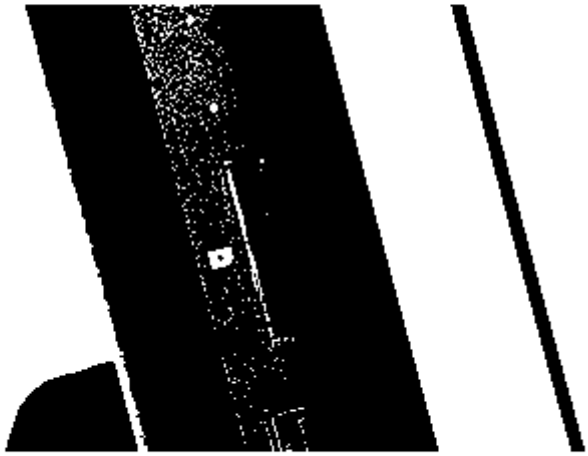
Formats/Disc types	Write speeds	Read speeds	Storage capacity
Blu-ray Disc	not supported		
HD DVD	not supported		
DVD			
DVD-ROM SL	NA	up to 8X	up to 4.7 GB
DVD-ROM DL	NA	up to 8X	up to 8.5 GB
DVD+R SL	up to 8X	up to 8X	up to 4.7 GB
DVD+R DL	up to 6X	up to 8X	up to 8.5 GB
DVD+RW SL	up to 8X	up to 8X	up to 4.7 GB
DVD+RW DL	not supported		
DVD-R SL	up to 8X	up to 8X	up to 4.7 GB
DVD-R DL	up to 6X	up to 8X	up to 8.5 GB
DVD-RW SL	up to 6X	up to 8X	up to 4.7 GB

DVD-RW DL	not supported		
DVD-RAM	up to 5X	up to 5X	up to 4.7 GB
CD			
CDROM	NA	up to 24X	up to 700 MB
CDR	up to 24X	up to 24X	up to 700 MB
CDRW	up to 24X	up to 24X	up to 700 MB

Memory Card Reader

Multimedia card reader

Figure 3: View of memory card reader



Supports the following cards:

- Secure Digital (SD)
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)
- Memory Stick (MS)
- Memory Stick Select
- Memory Stick PRO (MS-PRO)
- Memory Stick MagicGate

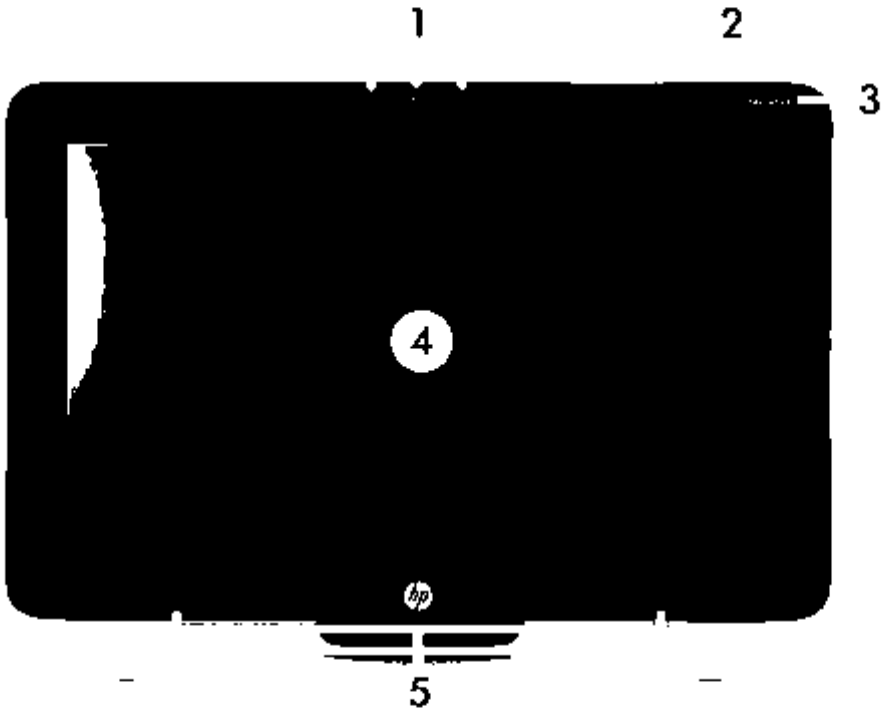
Computer Case

All-in-One

- Height: 40.39 cm (15.90 in)
- Depth: 8.26 cm (3.25 in)
- Width: 55.78 cm (21.96 in)
- Weight: 7.9 kg (17.5 lb)
- Stand type: Easel (folding arm)
- Tilt Angle: 10 to 25 degrees

Front of the system

Figure 4: Front of the system



1 - Webcam and dual microphone array

2 - Power button

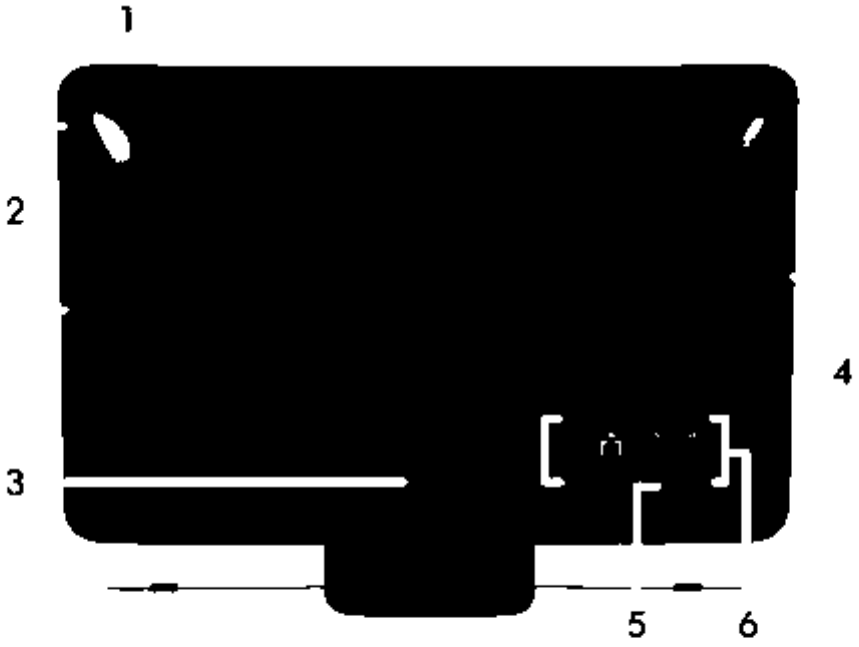
3 - Model brand name

4 - Display

5 - Integrated speakers

Back of the system

Figure 5: Back of the system



1 - Power button

2 - Optical disc drive

3 - Stand

4 - Side I/O ports

5 - Lock slot

6 - Back I/O ports

Left side of the system

Figure 6: Left side of the system

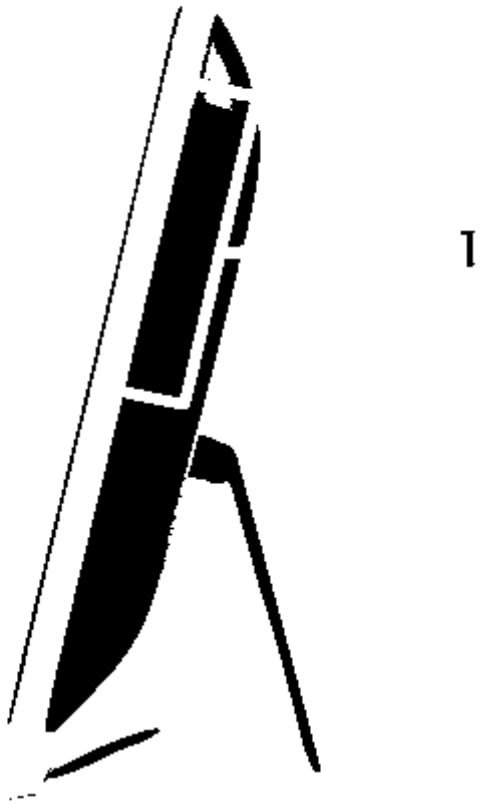




1 - Left side ports

Right side of the system

Figure 7: Right side of the system



1 - Optical disc drive

Power Supply

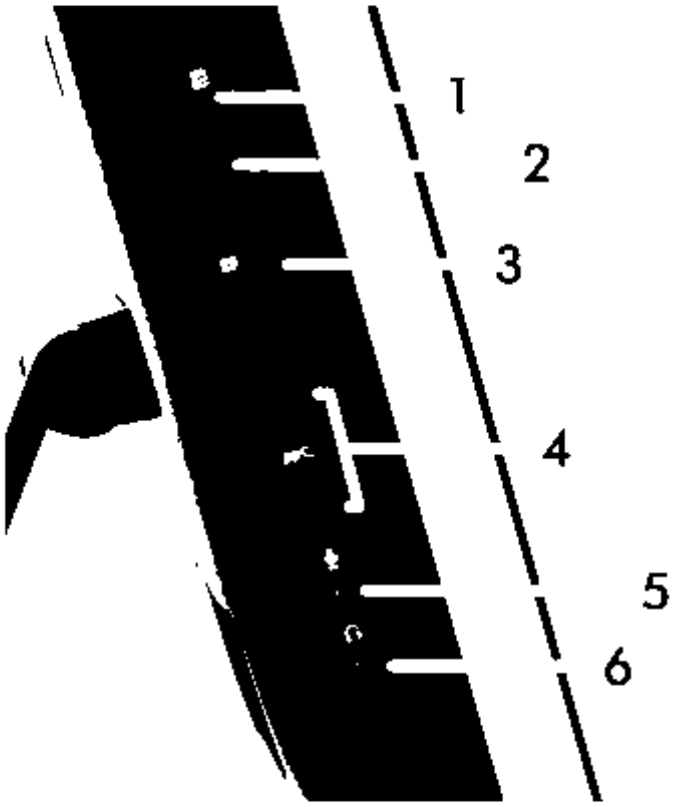
External 120 W

- Total wattage: 120 W
- Output voltage: 19.5 V

I/O Ports

Left I/O ports

Figure 8: Left I/O ports



1 - Hard drive activity indicator

2 - Memory card reader activity indicator

3 - Memory card reader

4 - 2 x USB 3.0

5 - Microphone jack

6 - Headphone jack

Back I/O ports

Figure 9: Back I/O ports





1 - DC input power port

2 - Activity indicator

3 - LAN (Ethernet)

4 - 4 x USB 2.0

5 - Audio port

Keyboard, mouse and input devices

Wireless keyboard with volume control

NOTE: Keyboard layout and functionality may vary by country/region.

Figure 10: Top view of keyboard



- Wireless technology: Two-way 2.4GHz Radio Frequency
- Effective distance: 10 meters (32 feet)
- Batteries: 2 AA alkaline batteries
- Battery life: 6 months (typical)

Dimensions:

- Height: 27.3 mm (1.0 inch)
- Width: 143.7 mm (5.6 inches)
- Length: 421.5 mm (16.5 inches)

Wireless optical mouse

Figure 11: Top view of mouse



- Wireless technology: Two-way 2.4GHz Radio Frequency
- Batteries: 2 AA alkaline (battery life 6 months typical)
- Buttons:
  - 2 primary buttons
  - Clickable scroll wheel

Dimensions:

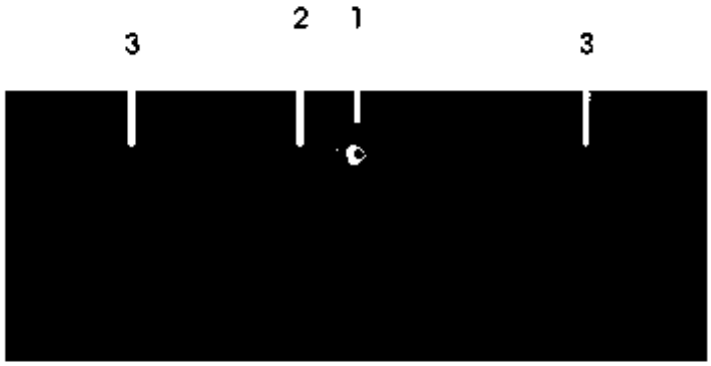
  - Cable length (external): 1.8 meters (5.9 feet)
  - Length: 109.8 mm (4.3 inches)
  - Width: 58 mm (2.2 inches)
  - Height: 33.1 mm (1.3 inches)
  - life 6 months (typical) Batteries 2 AA alkaline batteries
- USB receiver:
  - Wireless technology: Two-way 2.4GHz Radio Frequency (1M bandwidth, 78 channel)

Channel)

- Effective distance: More than 10 meters
- Interface: USB micro receiver
- Length: 45.5 mm (1.7 inches)
- Width: 18.4 mm (0.7 inch)
- Height: 8.4 mm (0.3 inch)

Webcam

Figure 12: Webcam with array microphone



1 - Web camera

2 - Activity LED

3 - Digital microphone array