

ProDesk 600 G1 decoder

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Invented for life



- ▶ Business performance mini desktop PC in a VESA mount form factor with Intel's latest generation microarchitecture
- ▶ Integrated Intel HD graphics 4600 with 2 x Display Ports
- ▶ Monitor Wall appliance from Bosch pre-installed and pre-licensed
- ▶ Protected by HP Services, including a 3 years Next Business Day on-site support

This HP ProDesk 600 G1 mini business PC with its latest 4th generation Intel Core processing and I/O power is coming in a smallest form factor with business class performance.

Together with the Monitor Wall appliance from Bosch pre-installed it is designed for advanced visualization of multiple video surveillance live cameras.

With its space saving design it can be set up vertically or horizontally or easily be attached to optional peripheral devices such as monitors using the integrated VESA mount (support for VESA 100 mm mounting system on bottom of PC chassis). These flexible deployment options are supported by an integrated wireless antenna.

ProDesk 600 G1 is easily serviced: a single thumb screw provides fast access to clearly identifiable and serviceable components.

Equipped with the latest Intel Core i5-4590T with integrated Intel HD graphics 4600 (2 GHz, 6 MB cache, 4 cores) and 4 GB DDR3-1600 memory it provides the speed and performance to also display highest UHD resolution live cameras. Designed for 24 x 7 business operations it keeps downtimes low and productivity high.

System overview

ProDesk 600 G1 decoder is a mini business PC solution based on the Intel Q85 Express chipset supporting Intel 4th generation Core processors, featuring integrated Intel HD Graphics and Intel Standard Manageability Technology.

Designed as mini desktop form factor it nevertheless provides performance scalability and expandability:

- Processor: Intel Core i5-4590T processor up to 3.0 GHz max. turbo frequency (2.0 GHz base frequency), 6 MB cache, 4 cores, 4 threads Intel HD Graphics 4600; supports DDR3 memory up to 1600 MT/s data rate
- Expansion slots: 2 x M.2 (1 x M.2 2230 for optional wireless NIC; 1 x M.2 2280 for storage drives)
- Port and connectors: 4 x USB 3.0; 2 x USB 2.0; 1 x RJ-45; 1 x audio line out; 1 x headphone; 1 x microphone; 1 x VGA; 2 x DisplayPort

Intel Microarchitecture offers the latest in processor innovation, including:

- PC chassis and all internal components and modules are manufactured with low halogen content
- HP developed and engineered UEFI BIOS supporting security, manageability and software image stability
- Intel Ethernet Connection I217L GbE LOM integrated network connection
- DDR3 Synchronous Dynamic Random Access Memory (SDRAM)

- Multi-independent monitor support via VGA and dual digital DisplayPort video interfaces with multi-stream
- Standard efficiency energy saving power supply options ENERGY STAR qualified

Functions

The ProDesk 600 G1 decoder system comes with the Monitor Wall appliance from Bosch pre-installed and pre-licensed. Monitor Wall is the easiest way to view many cameras on state-of-the-art monitor walls. So this ProDesk 600 G1 version is designed as a multi-channel decoder with single or dual-screen support. Using the integrated VESA mount the desktop mini can be attached to optional peripheral devices such as monitors.

It can flawlessly decode one 4K stream, or five 1080p30 streams, or four H.264 720p60 streams, or six H.264 720p30 streams. Alternatively, it can simultaneously decode twelve H.264 SD streams from fast-moving AUTODOME cameras with the highest clarity.

Decoding Performance (with Layout: Monitor 1)

Encoding format	Streams	Resolution	Max. bitrate
H.264 UHD	1	4K	15 Mbit/s
H.264 HD	5	1080p30	3.5 Mbit/s
	4	720p60	3.0 Mbit/s
	6	720p30	3.5 Mbit/s
H.264 SD	12	4CIF	2.0 Mbit/s

Certifications and approvals

RoHS	Compliant with the European Union's Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU
WEEE	Designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive–2002/96/EC
Battery	The battery in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain <ul style="list-style-type: none"> • Mercury greater than 1 ppm by weight • Cadmium greater than 20 ppm by weight
ISO 11469 ISO 1043	Plastic parts used in the product weighing over 25 g are marked per ISO 11469 and ISO 1043
	This product contains 16% post-consumer recycled plastic (by weight)
	This product is 91.3% recyclable when properly disposed of at end-of-life

Approvals

Region	Certification
Europe	CE ProDesk 600 G1

Installation/configuration notes

Language selection

ProDesk 600 G1 decoder comes in four standard localizations:

- ProDesk 600 G1 decoder DE (MHW-WPD6R1-MWDE), German localization/keyboard
- ProDesk 600 G1 decoder UK (MHW-WPD6R1-MWUK), British English localization/keyboard
- ProDesk 600 G1 decoder RU (MHW-WPD6R1-MWRU), Russian localization/keyboard
- ProDesk 600 G1 decoder US (MHW-WPD6R1-MWUS), American English localization/keyboard

Graphics Card

ProDesk 600 G1 mini business PC comes with integrated Intel HD graphics supporting 1 x VGA and 2 x Display Port monitor connections. An additional external graphics card is not available.



Notice

ProDesk 600 G1 with Windows 8 OS provides a MUI (Multilingual User Interface) option. The language of the desktop selected during initial installation may be changed at any point in time during operations according to Microsoft Windows 8 guidelines.

Parts included

Quantity	Components
1	HP ProDesk 600 G1 mini desktop PC
1	<ul style="list-style-type: none"> • ProDesk 600 G1 localization kit (see supported language)
1	<ul style="list-style-type: none"> • ProDesk 600 G1 low halogen (chassis, all internal components and modules); standard efficiency 65 W active PFC (Power Factor Correction), 87% efficient
1	<ul style="list-style-type: none"> • 500 GB, 7200 RPM SATA, 2.5" HDD
1	<ul style="list-style-type: none"> • HP USB standard keyboard
1	<ul style="list-style-type: none"> • HP USB mouse
1	<ul style="list-style-type: none"> • Intel Core i5-4590T (2.0 GHz/6 MB/HD 4600 CPU)
1	<ul style="list-style-type: none"> • 4 GB DDR3-1600 SODIMM (1 x 4 GB) RAM
1	<ul style="list-style-type: none"> • HP desktop mini vertical chassis stand
1	DE, UK and RU versions: Microsoft Windows 8.1 Professional Edition, 64-bit OS US version: Microsoft Windows 7 Professional Edition, 64-bit OS
1	Monitor Wall version 8.10 pre-installed and pre-licensed
1	HP 3-year Next Business Day on-site hardware support

Technical specifications

Electrical	
Power supply (external)	Standard efficiency 65 W active PFC 87% efficient: <ul style="list-style-type: none"> • 89% average efficiency at 230 V • 88% average efficiency at 115 V
Operating voltage range	90 to 264 VAC
Rated voltage range	100 to 240 VAC
Rated line frequency	50/60 Hz (at 100 to 240 VAC)
Operating line frequency range	47 to 63 Hz (at 100 to 240 VAC)
Rated input current	N/A
DC output	+19.5 V
Energy consumption	
• normal operation	8.10 W (115 VAC, 60 Hz) 8.19 W (230 VAC, 50 Hz)
• sleep	1.67 W (115 VAC, 60 Hz) 1.57 W (230 VAC, 50 Hz)
Heat dissipation (typical, configuration and software dependent)	
• normal operation	28 BTU/h (115 VAC, 60 Hz) 28 BTU/h (230 VAC, 50 Hz)
• sleep	6 BTU/h (115 VAC, 60 Hz) 5 BTU/h (230 VAC, 50 Hz)
Declared noise emissions (typical, idle)	
• sound power	36 dB LWAd
• sound pressure	25 dB LpAm
Mechanical	
Form factor	Desktop mini
Chassis dimensions (H x W x D)	34 x 175 x 177 mm (1.3 x 6.9 x 7.0 in)
• Stand dimensions (H x W x D)	117 x 19.5 x 160 mm (4.6 x 0.77 x 6.3 in)
• System weight	1.3 kg (2.9 lb)
• Stand weight	0.047 kg (0.1 lb)
• Packaging	290 x 198 x 500 mm (11.4 x 7.8 x 19.7 in)
• Shipping weight	4.1 kg (9.0 lb)

Environmental	
Temperature	
• operating	10 °C to 35 °C (50 °F to 95 °F)
• non-operating	-30 °C to 60 °C (-22 °F to 140 °F)
Humidity	
• operating	10 to 90% relative humidity, non-condensing
• non-operating	5 to 95% relative humidity, non-condensing
Maximum altitude (non-pressurized)	
• operating	3,048 m (10,000 feet)
• non-operating	9,144 m (30,000 feet)

Notes:

- General technical specifications for the workstation are provided in the ProDesk 600 G1 QuickSpecs (DA-14654 Worldwide QuickSpecs - Version 36 - 4.6.2015).
- Configuration specifications are supplied in the **Parts included** section.

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Ordering information

ProDesk 600 G1 decoder DE

Desktop mini business PC – decoder. Monitor Wall pre-installed; German
Order number **MHW-WPD6R1-MWDE**

ProDesk 600 G1 decoder UK

Desktop mini business PC – decoder. Monitor Wall pre-installed; British English
Order number **MHW-WPD6R1-MWUK**

ProDesk 600 G1 decoder RU

Desktop mini business PC – decoder. Monitor Wall pre-installed; Russian
Order number **MHW-WPD6R1-MWRU**

ProDesk 600 G1 decoder US

Desktop mini business PC – decoder. Monitor Wall pre-installed; American English
Order number **MHW-WPD6R1-MWUS**

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