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Panel PC - DL PPC18.5M 7000 - 2400015

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Full IP65, VESA mounted, fanless industrial PC with LED-backlit 18.5-inch LCD widescreen display and multi-touch capacitive touchscreen. Powerful Intel® i7 processor and configurable RAM, mass storage and operating system options.

Product Description

The Designline PPC18.5M 7000 is a VESA-mounted IP65 industrialPC with an 18.5-in LED touch screen. Equipped with an Intel® Core™ i7-4650U processor delivering impressive performance for demanding tasks. The fanless design and flexible VESA mounting scheme makes the Designline PPC18.5M 7000 ideal for a wide variety of applications. A configurable COM port enables connection to legacy serial devices. The Designline PPC18.5M 7000 incorporates a modern, ergonomic design along with the ruggedized characteristics expected in an industrial product.

Why buy this product

- ☑ Modern ergonomic design
- ☑ Multi-touch touch screen
- ☑ Widescreen display
- ☑ Intel® HD graphics 5000
- ☑ VESA mounting
- ☑ Full IP 65
- ☑ Configurable
- ☑ Fanless design
- ☑ LED backlight
- ☑ Easy to maintain
- ☑ Powerful Intel® Core™ i7 processor
- ☑ Extended temperature rating

RoHS **iF DESIGN AWARD 2015**

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	1.000 g
Custom tariff number	84714100
Country of origin	Taiwan

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

External dimension, width	469 mm
External dimension, height	315 mm
External dimension, depth	60 mm

Display

Display	47 cm/18,5" TFT
Screen resolution	1366 x 768 Pixel(s) (WXGA)
Backlighting	LED
Display backlight MTBF	> 50000 h
Touch technology	Projective-capacitive, ten-touch control
Colors	16.2 million colors

Computer data

Processor	Intel$^®$Core™ i7-4650U 3.30 GHz
Cooling	passive
Operating systems	without operating system
	Windows$^®$ 7 Professional SP1 (32-bit), German
	Windows$^®$ 7 Professional SP1 (32-bit), English
	Windows$^®$ 7 Professional SP1 (64-bit), German
	Windows$^®$ 7 Professional SP1 (64-bit), English
	Windows$^®$ 7 Ultimate SP1 (64 bit), Multi-language
	Windows$^®$ 7 Ultimate SP1 (32-bit), Multi-language
	Windows$^®$ Embedded Standard 7 SP1 (32-bit), Multi-language
	Windows$^®$ Embedded Standard 7 SP1 (64-bit), Multi-language
	Windows$^®$ 10 IoT Enterprise LTSB 2015 (32-bit), Multi-language
	Windows$^®$ 10 IoT Enterprise LTSB 2015 (64-bit), Multi-language
RAM	4 GB DDR3 SODIMM
	8 GB DDR3 SODIMM
	12 GB DDR3 SODIMM
Mass storage	without mass storage
	4 GB SSD (SLC)
	8 GB SSD (SLC)
	16 GB SSD (SLC)

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Technical data

Computer data

	32 GB SSD (SLC)
	2,5" SSD (MLC), 80 GB
	2,5" SSD (MLC),160 GB
	320 GB HDD 2,5" SATA
Network	2x Ethernet (10/100/1000 Mbps), RJ45
Network chipset	Intel$^®$ I210-AT
Interfaces	1x COM (RS-232/422/485)
	4x USB 2.0
	1x USB 3.0
	1x Audio
Monitor output	without
Slots	without slots
Optical drive	Without drive
Realtime clock	Yes (battery-backed)
Service life of battery	5 years (typical)

General

Mounting type	VESA MIS-D, 100
Weight	5.7 kg

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	0 °C ... 45 °C (with HDD)
	-20 °C ... 55 °C (with SSD)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	1g with SSD, 0.5g with HDD, according to EN 60068-2-6
Shock	15g, 11 ms in accordance with IEC 60068-2-27

Device supply

Supply voltage	24 V DC
Supply voltage range	9 V DC ... 32 V DC
Power supply unit	24 V DC ±20 %

Standards and Regulations

Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	1g with SSD, 0.5g with HDD, according to EN 60068-2-6

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Classifications

eCl@ss

eCl@ss 4.0	27250315
eCl@ss 4.1	27250315
eCl@ss 5.0	27259205
eCl@ss 5.1	27242301
eCl@ss 6.0	27242301
eCl@ss 7.0	27242301
eCl@ss 8.0	27242301
eCl@ss 9.0	19200103

ETIM

ETIM 4.0	EC001413
ETIM 5.0	EC001414
ETIM 6.0	EC001414

UNSPSC

UNSPSC 13.2	43211509

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

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Approvals

cULus Listed	c(UL)us LISTED

Accessories

Accessories

Buffer module

Buffer module - PC-PWR-FLTR-2 - 2402941

The PC-PWR-FLTR-2 buffers incoming power until operating voltage is reached. For use with 24 V DC power sources with ascend times over 100 ms 7 A max.

Mounting material

Holder - DL WALL MOUNT - 2400013

Wall bracket for Designline. Hole size: VESA 100 with keyholes for easy mounting. Color: RAL 7035 (light gray). Length: 218 mm

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Holder - DL ADAPTER PLATE VESA75-100 - 2400014

Mounting plate for Designline for conversion from VESA 75 to VESA 100. VESA 100 hole size includes keyholes for easy mounting. Color: RAL 7035 (light gray).

Removable hard drive tray - DL HDD/SSD TRAY KIT - 2400033

2.5" SATA kit for Designline industrial PC

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Accessories

Mounting panel

Mounting kit - DL 18.5 RITTAL ADAPTER - 2402682

The DL...RITTAL ADAPTER attaches to a Designline IPC to allow seamless integration with a Rittal CP40- or CP60-series support arm.

Mounting kit - DL 18.5 RITTAL ADAPTER - 2402682

The DL...RITTAL ADAPTER attaches to a Designline IPC to allow seamless integration with a Rittal CP40- or CP60-series support arm.

Storage medium

Memory - DL 320 GB HDD KIT - 2400028

320 GB, 2.5" SATA HDD kit with tray for Designline industrial PC

Memory - DL 16 GB SSD KIT - 2400029

16 GB, 2.5" SATA SSD kit with tray for Designline industrial PC

Memory - DL 32 GB SSD KIT - 2400030

32 GB, 2.5" SATA SSD kit with tray for Designline industrial PC

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Accessories

Memory - DL 80 GB SSD KIT - 2400031

80 GB, 2.5" SATA SSD kit with tray for Designline industrial PC

Memory - DL 160 GB SSD KIT - 2400032

160 GB, 2.5" SATA SSD kit with tray for Designline industrial PC

USB adapter

Software package - WES2009 / WES7 RECOVERY USB - 2400303

Operating system recovery kit for Windows® Embedded 2009 and Windows Embedded 7 operating systems. Kit includes a USB drive.

Spare parts

Printed-circuit board connector - MSTB 2,5/ 3-STF-5,08 - 1777992

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin