

Panel PC - DL PPC21.5M 7000 - 2400016

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Full IP65, VESA mounted, fanless industrial PC with LED-backlit 21.5-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 PPC21.5M 7000 is a VESA-mounted IP65 industrial PC with a 21.5-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 PPC21.5M 7000 ideal for a wide variety of applications. A configurable COM port enables connection to legacy serial devices. The Designline PPC21.5M 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



Key Commercial Data

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

Panel PC - DL PPC21.5M 7000 - 2400016

Technical data

Note

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

Dimensions

External dimension, width	534 mm
External dimension, height	355 mm
External dimension, depth	60 mm

Display

Display	54.6 cm / 21.5" TFT
Screen resolution	1920 x 1080 Pixel(s) (Full HD)
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 LTSC 2015 (32-bit), Multi-language
	Windows® 10 IoT Enterprise LTSC 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)

Panel PC - DL PPC21.5M 7000 - 2400016

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	7.1 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

Panel PC - DL PPC21.5M 7000 - 2400016

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/XYVV/template/LISEXT/1FRAME/index.htm	FILE E 238705
-----------	---	---	---------------

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

Panel PC - DL PPC21.5M 7000 - 2400016

Approvals

cULus 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

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

Panel PC - DL PPC21.5M 7000 - 2400016

Accessories

Mounting panel

Mounting kit - DL 21.5 RITTAL ADAPTER - 2402683

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

Memory - DL 80 GB SSD KIT - 2400031



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

Panel PC - DL PPC21.5M 7000 - 2400016

Accessories

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