

# Product datasheet

Specifications



## Panel PC Universal - Flash Disk - 15" - AC - 2 slots - 500 I/O - fanless

HMIPUF7A2PF1

⚠ Discontinued on: 30 Jun 2016

⚠ End-of-service on: 31 Dec 2020

⚠ Discontinued

EAN Code: 3595864143965

### Main

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Range of product          | Harmony iPC                                                         |
| Product or component type | PC panel                                                            |
| Processor name            | Atom N270 1.66 GHz L2 cache 512 KB                                  |
| Chipset type              | Intel 945GME at 533 MHz                                             |
| Display size              | 15 inch                                                             |
| Display colour            | 16 million colours                                                  |
| Luminance                 | 350 cd/m²                                                           |
| Drive type                | DVD-RW                                                              |
| Video controller type     | Intel Graphics Media Accelerator (GMA) 950, 224 MB                  |
| Operating system          | MS Windows XP Professional Edition SP3multi-language                |
| Software package          | Vijeo Designer run time demo<br>Vijeo Citect client/server, 500 I/O |
| Bezel material            | Aluminium alloy                                                     |

### Complementary

|                                  |                                                                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal type                    | Touchscreen display                                                                                                                                                                                                                |
| Data storage equipment           | >= 60 GB Flash disk SSD with MLC technology 2000000 h mtbf                                                                                                                                                                         |
| Display type                     | Active matrix colour TFT LCD with LED backlight                                                                                                                                                                                    |
| Display resolution               | 1024 x 768 pixels XGA                                                                                                                                                                                                              |
| View angle horizontal x vertical | 160 x 100°                                                                                                                                                                                                                         |
| Touch panel                      | Analogue resistive                                                                                                                                                                                                                 |
| Memory type                      | 512 KB SRAM<br>2 GB RAM DDR3                                                                                                                                                                                                       |
| type of cooling                  | Fanless                                                                                                                                                                                                                            |
| Integrated connection type       | 2 Ethernet TCP/IP - RJ45<br>DVI-I video port - DVI-I<br>COM1 serial link - male SUB-D 9 - RS232C (rate: 115 kbit/s)<br>COM2 serial link - male SUB-D 9 - RS232C (rate: 115 kbit/s)<br>USB 2.0 type A (rate: 480 Mbit/s)front panel |
| Port Ethernet                    | 10BASE-T/100BASE-T/1000BASE-T                                                                                                                                                                                                      |
| Number of slots                  | 1 PCI<br>1 PCI express 4x                                                                                                                                                                                                          |
| [Us] rated supply voltage        | 100...240 V AC power supply                                                                                                                                                                                                        |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                        |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| Supply voltage limits  | 85...265 V                                                                                      |
| Network frequency      | 50...60 Hz<br>47...63 Hz                                                                        |
| [In] rated current     | 1.6 A                                                                                           |
| Inrush current         | 40 A                                                                                            |
| Power consumption in W | 130 W                                                                                           |
| Material               | Treated steel                                                                                   |
| Display material       | Polyethylene sheet                                                                              |
| Fixing mode            | Enclosure door: by fixing kit (fasteners included)<br>Panel: by fixing kit (fasteners included) |
| Type of installation   | Indoor                                                                                          |
| Control type           | ON/OFF push-button (equipment ON and OFF)<br>Push-button (reset)                                |
| Local signalling       | LED (multi-colour) for power<br>LED (yellow) for accessing Flash disk SSD (DISK)                |
| width                  | 402 mm                                                                                          |
| Height                 | 301 mm                                                                                          |
| Depth                  | 153 mm                                                                                          |
| Cut-out dimensions     | 383.5 (+ 1/- 0) x 282.5 (+ 1/- 0) x 1.6...10 mm                                                 |
| Net weight             | 10.83 kg                                                                                        |
| Main type              | Universal                                                                                       |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP65 front panel: conforming to EN/IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NEMA degree of protection             | NEMA 4X front panel                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product certifications                | Marine GL Bridge with line filter HMIYLFIMAR11<br>CULus 508<br>CULus CSA 22-2 No 142<br>CULus HazLoc Class I Division 2 UL 1604<br>CULus HazLoc Class I Division 2 ANSI/ISA 12-12-01<br>CULus HazLoc Class I Division 2 CSA 22-2 No 213<br>GOST<br>CE<br>C-Tick                                                                                                                                                                                                |
| Pollution degree                      | 2 conforming to EN/IEC 61131-2                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Electromagnetic compatibility         | Immunity to electromagnetic emissions, class A conforming to EN 55022<br>Immunity to electromagnetic emissions, class A conforming to EN 55011<br>Immunity to high frequency interference conforming to EN/IEC 61131-2<br>Immunity to high frequency interference conforming to EN/IEC 61000-4-x                                                                                                                                                               |
| Ambient air temperature for operation | 0...50 °C vertical installation conforming to UL 508<br>0...50 °C vertical installation conforming to EN/IEC 61131-2<br>0...45 °C vertical installation when using RAID option conforming to EN/IEC 61131-2<br>0...45 °C vertical installation when using RAID option conforming to UL 508<br>5...45 °C vertical installation when using DVD writer conforming to EN/IEC 61131-2<br>5...45 °C vertical installation when using DVD writer conforming to UL 508 |
| Ambient air temperature for storage   | -20...60 °C conforming to IEC 60068-2-2 test Bb<br>-20...60 °C conforming to IEC 60068-2-14 test Na                                                                                                                                                                                                                                                                                                                                                            |
| Relative humidity                     | 10...85 % conforming to EN/IEC 60068-2-78<br>10...85 % conforming to EN/IEC 60068-2-30                                                                                                                                                                                                                                                                                                                                                                         |
| Operating altitude                    | 2000 m conforming to EN/IEC 61131-2                                                                                                                                                                                                                                                                                                                                                                                                                            |

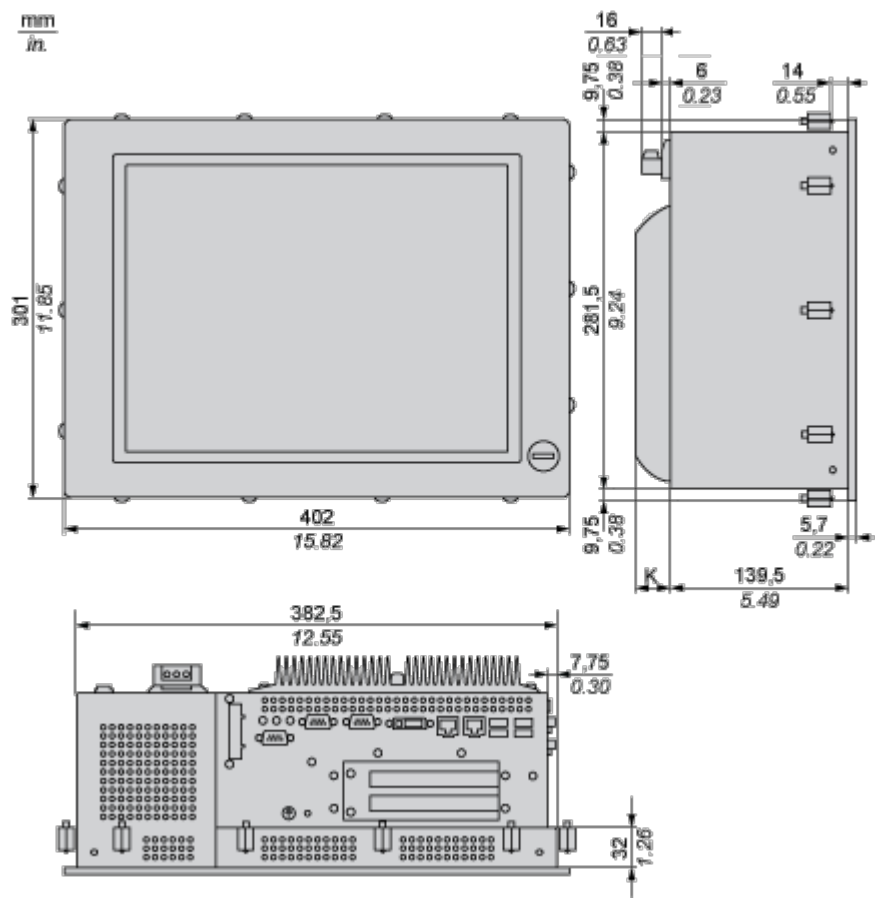
|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| Vibration resistance | 1.75 mm (f = 2...9 Hz) continuous conforming to EN/IEC 60068-2-6 Fc     |
|                      | 3.5 mm (f = 2...9 Hz) intermittently conforming to EN/IEC 60068-2-6 Fc  |
|                      | 0.5 gn (f = 9...200 Hz) continuous conforming to EN/IEC 60068-2-6 Fc    |
|                      | 1 gn (f = 9...200 Hz) intermittently conforming to EN/IEC 60068-2-6 Fc  |
|                      | 1 mm (f = 3...13.2 Hz) continuous conforming to EN/IEC 60068-2-6 Fc     |
|                      | 0.7 gn (f = 13.2...100 Hz) continuous conforming to EN/IEC 60068-2-6 Fc |
| Shock resistance     | 15 gn for 11 ms conforming to IEC 60068-2-27, Ea tests                  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions Drawings

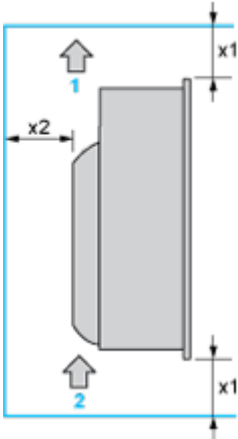
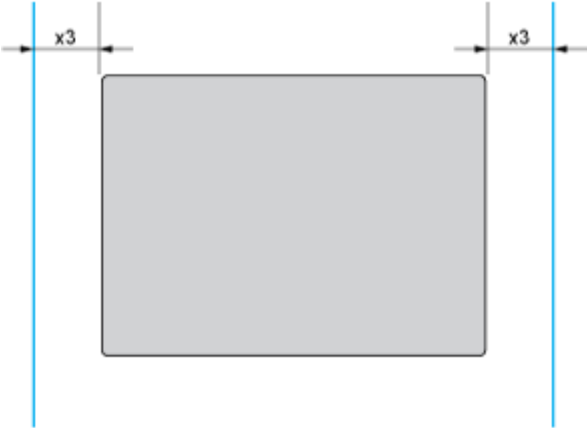
Dimensions



K : 12.8 mm / 0.50 in.

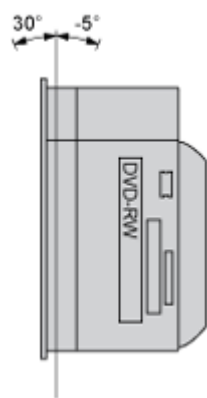
Mounting and Clearance

Spacing Requirements

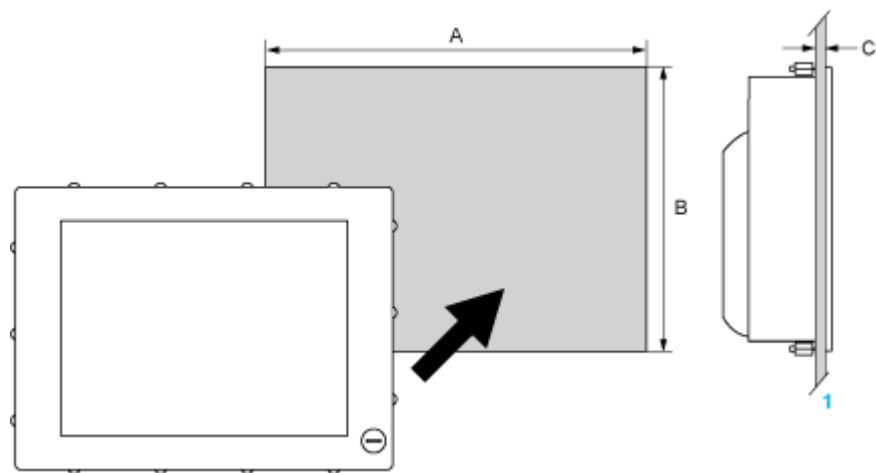
| Top, Bottom and Rear Sides                                                                                                              | Left and Right Sides                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <div></div> <div><p>1 Air out</p><p>2 Air in</p></div> | <div></div> |
| <div><p>x1 &gt; 100 mm (3.93 in.)</p><p>x2 &gt; 50 mm (1.96 in.)</p><p>x3 &gt; 10 mm (0.39 in.)</p></div>                               |                                                                                               |

Mounting Orientation

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Panel Cut Dimensions



1 Installation panel

| A                                       | B                                       | C                             |
|-----------------------------------------|-----------------------------------------|-------------------------------|
| 383.5 + 1/- 0 mm (15.10 + 0.04/- 0 in.) | 282.5 + 1/- 0 mm (11.12 + 0.04/- 0 in.) | 1.6...10 mm (0.06...0.39 in.) |