

# Selection Guide

## Marine IP6x Panel-PC

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## Selection Guide Marine IP6x Panel-PC



**10,1" DeltaTough Panel-PC Rahmenlos  
IEC-60945**

**15,6" DeltaTough Panel-PC Rahmenlos,  
IP65, AG**

**15,6" DeltaTough Panel-PC Rahmenlos  
Type 1**

| LCD Size                 | 10,1" LCD Touch Panel-PC                             | 15,6" TFT LCD                                                                                                 | 15,6" TFT LCD                                                                                                 |
|--------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Active Area              |                                                      |                                                                                                               |                                                                                                               |
| Pixel Pitch              | -                                                    | -                                                                                                             | -                                                                                                             |
| Aspect Ratio             |                                                      |                                                                                                               |                                                                                                               |
| Display Backlight        | LED Backlight                                        | LED Backlight                                                                                                 | LED Backlight                                                                                                 |
| Display Resolution       | WXGA (1.280x800)                                     | 1080p (1.920x1.080)                                                                                           | 1080p (1.920x1.080)                                                                                           |
| Display Colors           | 16,7M                                                | 16,7M                                                                                                         | 16,7M                                                                                                         |
| Brightness               | 500 cd/m²                                            | 450 cd/m², optional 1.000cd/m²                                                                                | 450 cd/m², optional 1.000cd/m²                                                                                |
| Contrast Ratio           |                                                      |                                                                                                               |                                                                                                               |
| Response Time            |                                                      |                                                                                                               |                                                                                                               |
| Viewing Angle            | 170° / 170° (H / V)                                  | 170° / 170° (H / V)                                                                                           | 170° / 170° (H / V)                                                                                           |
| Anti Reflection Glass    |                                                      |                                                                                                               | x                                                                                                             |
| Strengthened Glass       |                                                      |                                                                                                               |                                                                                                               |
| Sunlight Readable        | -                                                    | -                                                                                                             | x                                                                                                             |
| Gapless Optical Bonding  |                                                      |                                                                                                               |                                                                                                               |
| MTBF                     | 30.000 h                                             | 30.000 h                                                                                                      | 30.000 h                                                                                                      |
| TouchScreen              | Projected capacitive Touch                           | Projected capacitive Touch                                                                                    | Projected capacitive Touch                                                                                    |
| Keypad                   | Vol+, Vol-, Up, Down, Exit/Enter                     |                                                                                                               |                                                                                                               |
| Cooling System           | Fanless                                              | Fanless                                                                                                       | Fanless                                                                                                       |
| Mounting System          | VESA 100 VESA                                        | 75 x 75mm / 100 x 100mm M4 Screw Hole VESA                                                                    | 75 x 75mm / 100 x 100mm M4 Screw Hole VESA                                                                    |
| CPU                      | RK3288 Processor, up to 1.6GHz                       | Intel® TigerLake-U Core i5/i7 Processors                                                                      | Intel® TigerLake-U Core i3/i5/i7 Processors                                                                   |
| Chipset                  | QC Cortex-A17                                        | (Intel® i219LM for iAMT 12.0,<br>i225-IT Supports 2.5GbE LAN                                                  | Intel® i225-LM supports 2.5GbE LAN                                                                            |
| Watchdog Timer           | -                                                    | -                                                                                                             | -                                                                                                             |
| Basic Equipment          | 2GB                                                  | 2GB                                                                                                           |                                                                                                               |
| Maximum Equipment        | 4GB                                                  | 4GB                                                                                                           | up to 64GB                                                                                                    |
| SDRAM                    | -                                                    | -                                                                                                             | -                                                                                                             |
| DIMM / MemorySocket      | DDR3                                                 | DDR3                                                                                                          | 2x DDR4 SO-DIMM                                                                                               |
| Compact Flash            | 16GB eMMC onBoard                                    | 1 x DDR4 SO-DIMM, up to 32GB                                                                                  |                                                                                                               |
| SD                       | 1x SD Card (SDHC Class10 compatible)                 |                                                                                                               |                                                                                                               |
| HD SATA                  |                                                      |                                                                                                               |                                                                                                               |
| Internal Storage         | 3 x External Module Ports                            | 1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket                                                                 | 1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket                                                                 |
| Graphic Interface        | 1x Mini HDMI HDMI, LCD-LVDS                          | 2x DisplayPort                                                                                                | 1x HDMI, 1x DisplayPort                                                                                       |
| Interface COM            |                                                      |                                                                                                               |                                                                                                               |
| CAN                      |                                                      |                                                                                                               |                                                                                                               |
| Interface USB            | 1x Micro-USB (OTG) USB, 2x USB 2.0 Type A<br>USB 2.0 | 4x USB Ports USB                                                                                              | 4x 3.2 Gen2 USB 3.0                                                                                           |
| Interface LAN            | 1x 10/100 BASE-T, WLAN                               | 2 x RJ45 GbE LAN (Intel® i219LM for iAMT 12.0,<br>i225-IT Supports 2.5GbE LAN 2,5G - 5G BASE-T                | 2 x RJ45 GbE LAN (Intel® i225-LM supports<br>2.5GbE LAN) 2,5G - 5G BASE-T                                     |
| Interface IO             | 1x RJ45 GbE LAN, 2x RJ45 RS-232 Digital Input        | 4x RS-232/422/485 Digital Input                                                                               | 4x RS-232/422/485 Digital Input                                                                               |
| Mini PCIe                |                                                      |                                                                                                               |                                                                                                               |
| Camera                   | Optional, 2M pixel                                   |                                                                                                               |                                                                                                               |
| Bluetooth                | -                                                    | -                                                                                                             | -                                                                                                             |
| Audio                    | 1x Headset + MIC                                     | 1x                                                                                                            | 1x out                                                                                                        |
| Speakers                 | Dual 2W Speaker                                      |                                                                                                               |                                                                                                               |
| RFID                     | -                                                    | -                                                                                                             | -                                                                                                             |
| SIM Card                 |                                                      |                                                                                                               |                                                                                                               |
| GPS                      |                                                      |                                                                                                               |                                                                                                               |
| Mobile Communication 2G  | -                                                    | -                                                                                                             | -                                                                                                             |
| Mobile Communication 3G  | -                                                    | -                                                                                                             | -                                                                                                             |
| PCIe                     |                                                      |                                                                                                               |                                                                                                               |
| Operating System         | Android, Ubuntu, Debian                              | Windows 10 IoT Enterprise LTSC                                                                                | Windows 10 IoT Enterprise LTSC, Windows 11 IoT<br>Enterprise, Linux Ubuntu, Linux Yocto                       |
| Operating System Support |                                                      |                                                                                                               |                                                                                                               |
| Input Voltage Nominal    | -                                                    | -                                                                                                             | -                                                                                                             |
| Input Voltage Min/Max    | DC 12V Power Input, Optional POE Module              | DC 9-36V Power Input                                                                                          | DC 12-24V Wide Range Power Input                                                                              |
| Output Voltage Nominal   |                                                      |                                                                                                               |                                                                                                               |
| Output Voltage Min/Max   | -                                                    | -                                                                                                             | -                                                                                                             |
| Input Current            |                                                      |                                                                                                               |                                                                                                               |
| Operating Temperature    | -0°C to 40°C                                         | -40 to 75 °C                                                                                                  | -40 to 70 °C                                                                                                  |
| Storage Temperature      | -10 to +55 °C                                        | -40 to 75 °C                                                                                                  | -40 to 70 °C                                                                                                  |
| Relative Humidity        | 0% - 85% at 40 °C, non- condensing                   | 10-90% @40 °C, non-condensing                                                                                 | 10-90% @40 °C, non-condensing                                                                                 |
| Protection               |                                                      | IP65 Front, IP66 Compliant, IEC-60068-2-64                                                                    | IP65 Front, IP66 Compliant, IEC-60068-2-64                                                                    |
| Certification            | CE, FCC, Optional IEC 60945                          | Class A, Class B Compliant CE, MIL-STD-810H<br>Shock+Vibration MIL-STD-810F, FCC, Optional<br>IEC 60945, RoHS | Class A, Class B Compliant CE, MIL-STD-810H<br>Shock+Vibration MIL-STD-810F, FCC, Optional<br>IEC 60945, RoHS |
| Dimensions               | 252,1 x 177,8 x 24,5 mm (L x W x H)                  | 387,4 x 242,4 x 84 mm (L x W x H)                                                                             | 387,4 x 242,4 x 84 mm (L x W x H)                                                                             |
| Weight                   |                                                      |                                                                                                               |                                                                                                               |
| Material                 | ABS plastic Back casing                              | Aluminum Front Bezel and Metal Case                                                                           | Aluminum Front Bezel and Metal Case                                                                           |
| Typ. Application         | Industrial, Marine, Digital Signage, Outdoor         | Industrial, Marine, Digital Signage, Outdoor                                                                  | Industrial, Marine, Digital Signage, Outdoor                                                                  |

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**10,1" DeltaTough Panel-PC Rahmenlos  
IEC-60945**



**15,6" DeltaTough Panel-PC Rahmenlos,  
IP65, AG**



**15,6" DeltaTough Panel-PC Rahmenlos  
Type 1**

|                    |                                                                                                                                                                    |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bestellinformation | <p>Artikel-Nr. PKPT1001<br/>10,1" DeltaTough Panel-PC Rahmenlos<br/>IEC-60945, 500cd/m<sup>2</sup>, RK3288QC<br/>Cortex-A17,2GB DDR3,16GB<br/>eMMC,RJ45,GbELAN</p> | <p>Artikel-Nr. PKPT4001<br/>15,6" DeltaTough Panel-PC Rahmenlos, IP65, AG,<br/>1.000cd/m<sup>2</sup>, 11th Gen Intel Core<br/>i5,9-55V,-40~70°C,USB,HDMI,DP</p> | <p>Artikel-Nr. PKPT4100<br/>15,6" DeltaTough Panel-PC Rahmenlos Type 1,<br/>IP65, AG, Intel Tigerlake-UP3Core<br/>i3,450cd/m,12-24V,-40~70°C</p> <p>Artikel-Nr. PKPT4101<br/>15,6" DeltaTough Panel-PC Rahmenlos Type 2,<br/>IP65, AG, Intel Tigerlake-UP3Core<br/>i5,450cd/m,12-24V,-40~70°C</p> <p>Artikel-Nr. PKPT4102<br/>15,6" DeltaTough Panel-PC Rahmenlos Type 3,<br/>IP65, AG, Intel Tigerlake-UP3Core<br/>i7,450cd/m,12-24V,-40~70°C</p> |
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**17" Fanless Touch Panel-PC Front IP65 Typ 6**



**18,5" DeltaTough Panel-PC Rahmenlos Type 1**



**19" Fanless Touch Panel-PC Front IP65 Typ 3**

| LCD Size                 | 17"                                                          | 18,5" TFT LCD                                                                                           | 19"                                                          |
|--------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Active Area              | 337,9 x 270,4 mm                                             |                                                                                                         | 379,3 x 304,1 mm                                             |
| Pixel Pitch              | -                                                            | -                                                                                                       | -                                                            |
| Aspect Ratio             | 5:4                                                          |                                                                                                         | 5:4                                                          |
| Display Backlight        | LED Backlight                                                | LED Backlight                                                                                           | LED Backlight                                                |
| Display Resolution       | SXGA (1.280x1.024)                                           | 1080p (1.920x1.080)                                                                                     | SXGA (1.280x1.024)                                           |
| Display Colors           | 16,7M                                                        | 16,7M                                                                                                   | 16,7M                                                        |
| Brightness               | 250 cd/m²                                                    | 350 cd/m², optional 1.000cd/m²                                                                          | 250 cd/m²                                                    |
| Contrast Ratio           | 1.000:1                                                      |                                                                                                         | 1.000:1                                                      |
| Response Time            | 3,8 ms / 1,2 ms (Tr / Tf)                                    |                                                                                                         | 1,5 ms / 3,5 ms (Tr / Tf)                                    |
| Viewing Angle            | 170° / 160° (H / V)                                          | 178° / 178° (H / V)                                                                                     | 170° / 160° (H / V)                                          |
| Anti Reflection Glass    | Anti-glare treatment (chemical etching)                      | x                                                                                                       | Anti-glare treatment (chemical etching)                      |
| Strengthened Glass       | 7H                                                           |                                                                                                         | 7H                                                           |
| Sunlight Readable        | -                                                            | x                                                                                                       | -                                                            |
| Gapless Optical Bonding  |                                                              |                                                                                                         |                                                              |
| MTBF                     | 30.000 h                                                     | 30.000 h                                                                                                | 40.000 h                                                     |
| TouchScreen              | PCT 10-point Multi-Touch                                     | Projected capacitive Touch                                                                              | PCT 10-point Multi-Touch                                     |
| Keypad                   | -                                                            |                                                                                                         | -                                                            |
| Cooling System           | Fanless                                                      | Fanless                                                                                                 | Fanless                                                      |
| Mounting System          | 100 x 100 mm VESA, Metal stand (included) Stand              | 75 x 75mm / 100 x 100mm M4 Screw Hole VESA                                                              | 100 x 100 mm VESA, Metal stand (included) Stand              |
| CPU                      | Intel Pentium N4200 Quad Core, up to 2.5GHz                  | Intel® TigerLake-U Core™ i3/i5/i7 Processors                                                            | Intel Pentium N4200 Quad Core, up to 2.5GHz                  |
| Chipset                  | -                                                            | Intel® I225-LM supports 2.5GbE LAN                                                                      | -                                                            |
| Watchdog Timer           | -                                                            | -                                                                                                       | -                                                            |
| Basic Equipment          | 4GB                                                          |                                                                                                         | 4GB                                                          |
| Maximum Equipment        | 8GB                                                          | up to 64GB                                                                                              | 8GB                                                          |
| SDRAM                    | -                                                            | -                                                                                                       | -                                                            |
| DIMM / MemorySocket      | DDR3L                                                        | 2x DDR4 SO-DIMM                                                                                         | DDR3L                                                        |
| Compact Flash            | -                                                            |                                                                                                         | -                                                            |
| SD                       | -                                                            |                                                                                                         | -                                                            |
| HD SATA                  | -                                                            |                                                                                                         | -                                                            |
| Internal Storage         | 128GB Industrial SSD                                         | 1x 2.5" Storage Bay, 1x M.2 B-key 2260 Socket                                                           | 128GB Industrial SSD                                         |
| Graphic Interface        | Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort | 1x HDMI, 1x DisplayPort                                                                                 | Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort |
| Interface COM            | 1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN    |                                                                                                         | 1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN    |
| CAN                      | -                                                            |                                                                                                         | -                                                            |
| Interface USB            | 2x USB 2.0, 2x USB 3.0                                       | 4x 3.2 Gen2 USB 3.0                                                                                     | 2x USB 2.0, 2x USB 3.0                                       |
| Interface LAN            | 2x 10/100/1000 BASE-T, WLAN                                  | 2 x RJ45 GbE LAN (Intel® I225-LM supports 2.5GbE LAN) 2,5G - 5G BASE-T                                  | 2x 10/100/1000 BASE-T, WLAN                                  |
| Interface IO             | GPIO, Digital Input, Digital Output                          | 4x RS-232/422/485 Digital Input                                                                         | GPIO, Digital Input, Digital Output                          |
| Mini PCIe                | -                                                            |                                                                                                         | -                                                            |
| Camera                   |                                                              |                                                                                                         |                                                              |
| Bluetooth                | -                                                            | -                                                                                                       | -                                                            |
| Audio                    | 1x MIC-In                                                    | 1x out                                                                                                  | 1x MIC-In                                                    |
| Speakers                 | -                                                            |                                                                                                         | -                                                            |
| RFID                     | -                                                            | -                                                                                                       | -                                                            |
| SIM Card                 | -                                                            |                                                                                                         | -                                                            |
| GPS                      | -                                                            |                                                                                                         | -                                                            |
| Mobile Communication 2G  | -                                                            | -                                                                                                       | -                                                            |
| Mobile Communication 3G  | -                                                            | -                                                                                                       | -                                                            |
| PCIe                     | 1x PCIe1 Straddle Connector                                  |                                                                                                         | 1x PCIe1 Straddle Connector                                  |
| Operating System         | Linux Ubuntu (preinstalled)                                  | Windows 10 IoT Enterprise LTSC, Windows 11 IoT Enterprise, Linux Ubuntu, Linux Yocto                    | Linux Ubuntu (preinstalled)                                  |
| Operating System Support | Linux Ubuntu + Windows 10                                    |                                                                                                         | Linux Ubuntu + Windows 10                                    |
| Input Voltage Nominal    | -                                                            | -                                                                                                       | -                                                            |
| Input Voltage Min/Max    | 100 to 240VACDC                                              | DC 12-24V Wide Range Power Input                                                                        | 100 to 240VACDC                                              |
| Output Voltage Nominal   | 12VDC                                                        |                                                                                                         | 12VDC                                                        |
| Output Voltage Min/Max   | -                                                            | -                                                                                                       | -                                                            |
| Input Current            | 17W                                                          |                                                                                                         | Tbd.                                                         |
| Operating Temperature    | -10°C to 60°C                                                | -40 to 70 °C                                                                                            | -10°C to 60°C                                                |
| Storage Temperature      | -                                                            | -40 to 70 °C                                                                                            | -                                                            |
| Relative Humidity        | 10% to 90%                                                   | 10-90% @40 °C, non-condensing                                                                           | 10% to 90%                                                   |
| Protection               | IP65 front housing, IP40 back housing                        | IP65 Front, IP66 Compliant, IEC-60068-2-64                                                              | IP65 front housing, IP40 back housing                        |
| Certification            | -                                                            | Class A, Class B Compliant CE, MIL-STD-810H Shock+Vibration MIL-STD-810F, FCC, Optional IEC 60945, RoHS | -                                                            |
| Dimensions               | 393 x 340 x 60 mm (L x W x H)                                | 450,45 x 275,58 x 84 mm (L x W x H)                                                                     | 364,5 x 431,5 x 59 mm (H x W x L)                            |
| Weight                   | 4,05 Kg                                                      |                                                                                                         | 5 Kg                                                         |
| Material                 | Rubber front case, Aluminum IPC back case                    | Aluminum Front Bezel and Metal Case                                                                     | Rubber front case, Aluminum IPC back case                    |
| Typ. Application         | Industrial, Marine, Digital Signage, Outdoor                 | Industrial, Marine, Digital Signage, Outdoor                                                            | Industrial, Marine, Digital Signage, Outdoor                 |

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**17" Fanless Touch Panel-PC Front IP65  
Typ 6**



**18,5" DeltaTough Panel-PC Rahmenlos  
Type 1**



**19" Fanless Touch Panel-PC Front IP65  
Typ 3**

### Bestellinformation

Artikel-Nr. PKPX8218

17" Fanless Touch Panel-PC Front IP65 Typ 6 w/  
PCT, 4GB DDR3L, Intel® Pentium® N4200,  
SXGA, 250cd/m², HDMI+DP, IP65 front, Linux  
Ubuntu, Optical Bonding

Artikel-Nr. PKPT4110

18,5" DeltaTough Panel-PC Rahmenlos Type 1,  
IP65, AG, Intel Tigerlake-UP3Core  
i3,350cd/m,12-24V,-40~70°C

Artikel-Nr. PKPT4111

18,5" DeltaTough Panel-PC Rahmenlos Type 2,  
IP65, AG, Intel Tigerlake-UP3Core  
i5,350cd/m,12-24V,-40~70°C

Artikel-Nr. PKPT4112

18,5" DeltaTough Panel-PC Rahmenlos Type 3,  
IP65, AG, Intel Tigerlake-UP3Core  
i7,350cd/m,12-24V,-40~70°C

Artikel-Nr. PKPX8240

19" Fanless Touch Panel-PC Front IP65 Typ 3 w/  
PCT, 4GB DDR3L, Intel® Pentium® N4200,  
SXGA, 250cd/m², HDMI+DP, IP65 front, Linux  
Ubuntu, Optical Bonding

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**21,5" Fanless Touch Panel-PC Typ 2,  
Full IP68**



**21,5" Fanless Touch Panel-PC Typ 1,  
Full IP68**



**21,5" Fanless Touch HMI Panel-PC, Full  
IP65**

| LCD Size                 | 21,5"                                                    | 21,5"                                                    | 21,5"                                                      |
|--------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|
| Active Area              | -                                                        | -                                                        | -                                                          |
| Pixel Pitch              | 0,24825 x 0,24825 mm (H x V)                             | 0,24825 x 0,24825 mm (H x V)                             | -                                                          |
| Aspect Ratio             | -                                                        | -                                                        | -                                                          |
| Display Backlight        | LED Backlight                                            | LED Backlight                                            | LED Backlight                                              |
| Display Resolution       | 1080p (1.920x1.080)                                      | 1080p (1.920x1.080)                                      | 1080p (1.920x1.080)                                        |
| Display Colors           | 16,7M                                                    | 16,7M                                                    | 16,7M                                                      |
| Brightness               | 1.600 cd/m <sup>2</sup> (250 cd/m <sup>2</sup> optional) | 1.600 cd/m <sup>2</sup> (250 cd/m <sup>2</sup> optional) | 250cd/m <sup>2</sup>                                       |
| Contrast Ratio           | 900:1                                                    | 900:1                                                    | -                                                          |
| Response Time            | -                                                        | -                                                        | -                                                          |
| Viewing Angle            | 170° / 160° (H / V)                                      | 170° / 160° (H / V)                                      | 80° / 80° / 85° / 85° (U / D / R / L)                      |
| Anti Reflection Glass    | -                                                        | -                                                        | -                                                          |
| Strengthened Glass       | -                                                        | -                                                        | -                                                          |
| Sunlight Readable        | -                                                        | -                                                        | -                                                          |
| Gapless Optical Bonding  | -                                                        | -                                                        | -                                                          |
| MTBF                     | 100.000 hrs                                              | 100.000 hrs                                              | -                                                          |
| TouchScreen              | Projected capacitive TouchScreen                         | Projected capacitive TouchScreen                         | Projected capacitive TouchScreen                           |
| Keypad                   | -                                                        | -                                                        | -                                                          |
| Cooling System           | Fanless                                                  | Fanless                                                  | Fanless                                                    |
| Mounting System          | 100 x 100 mm VESA                                        | 100 x 100 mm VESA                                        | 100 x 100 mm VESA                                          |
| CPU                      | 7th Gen. Intel Core i7/i5/i3 or Intel Celeron G3930TE    | 6th Gen. Intel Core i7/i5/i3 or Intel Celeron 3955U      | Intel Core i5-6300U 2.4GHz                                 |
| Chipset                  | Intel® H110 PCH, Kabylake                                | Intel® Skylake-U integrated                              | 1x Intel i219LM PCIe with iAMT, 1x Intel i210IT PCIe       |
| Watchdog Timer           | Programmable 1 to 255 sec.                               | Programmable 1 to 255 sec.                               | 1 to 255 levels reset                                      |
| Basic Equipment          | 4GB                                                      | 4GB                                                      | 4GB                                                        |
| Maximum Equipment        | 32GB                                                     | 16GB                                                     | -                                                          |
| SDRAM                    | 260-pin DDR4 2.133MHz                                    | 260-pin DDR4 2.133MHz                                    | -                                                          |
| DIMM / MemorySocket      | -                                                        | -                                                        | DDR4 SO-DIMM RAM                                           |
| Compact Flash            | -                                                        | -                                                        | -                                                          |
| SD                       | -                                                        | -                                                        | 2x outside-accessible 2,5" drive bay (default)             |
| HD SATA                  | 64GB mSATA                                               | 64GB mSATA                                               | 1x mSATA                                                   |
| Internal Storage         | -                                                        | -                                                        | -                                                          |
| Graphic Interface        | -                                                        | -                                                        | 1x (optional) HDMI                                         |
| Interface COM            | 2x RS232                                                 | 2x RS232                                                 | 3x RS232/422/485                                           |
| CAN                      | -                                                        | -                                                        | -                                                          |
| Interface USB            | 2x USB 2.0                                               | 2x USB 2.0                                               | 4x USB 3.0                                                 |
| Interface LAN            | 2x M12 10/100/1000 BASE-T                                | 2x M12 10/100/1000 BASE-T                                | 2x RJ-45 10/100/1000 BASE-T, Optional WLAN                 |
| Interface IO             | -                                                        | -                                                        | 4x (optional) Digital Input, 4x (optional) Digital Output  |
| Mini PCIe                | 2x                                                       | 2x                                                       | 2x                                                         |
| Camera                   | -                                                        | -                                                        | -                                                          |
| Bluetooth                | -                                                        | -                                                        | -                                                          |
| Audio                    | -                                                        | -                                                        | 1x Line Out, 1x MIC In (optional)                          |
| Speakers                 | -                                                        | -                                                        | -                                                          |
| RFID                     | -                                                        | -                                                        | -                                                          |
| SIM Card                 | -                                                        | -                                                        | -                                                          |
| GPS                      | -                                                        | -                                                        | -                                                          |
| Mobile Communication 2G  | -                                                        | -                                                        | -                                                          |
| Mobile Communication 3G  | -                                                        | -                                                        | -                                                          |
| PCIe                     | -                                                        | -                                                        | -                                                          |
| Operating System         | -                                                        | -                                                        | -                                                          |
| Operating System Support | Windows 10, Linux                                        | Windows 10 / 8.1 / 7, Linux                              | Windows 10 / 8.1 / 7, Linux (Ubuntu)                       |
| Input Voltage Nominal    | 12VDC                                                    | 12VDC                                                    | -                                                          |
| Input Voltage Min/Max    | 9 to 36V (optional)                                      | 9 to 36V (optional)                                      | 9 to 36VDC                                                 |
| Output Voltage Nominal   | -                                                        | -                                                        | -                                                          |
| Output Voltage Min/Max   | -                                                        | -                                                        | -                                                          |
| Input Current            | -                                                        | -                                                        | -                                                          |
| Operating Temperature    | 0°C to 50°C                                              | 0°C to 50°C                                              | -10°C to 50°C                                              |
| Storage Temperature      | -20°C to 60°C                                            | -20°C to 80°C                                            | -20°C to 60°C                                              |
| Relative Humidity        | 0 to 90% (non-condensing)                                | 0 to 90% (non-condensing)                                | 10 to 95% RH @ 50°C (non-condensing)                       |
| Protection               | Full IP68 waterproof                                     | Full IP68 waterproof                                     | Full IP65 stainless steel chassis w/ waterproof connectors |
| Certification            | -                                                        | -                                                        | CE, Class A FCC                                            |
| Dimensions               | 544 x 43,5 x 335,5 mm (W x D x H)                        | 544 x 43,5 x 335,5 mm (W x D x H)                        | 620,3 x 423 x 62 mm (W x H x D)                            |
| Weight                   | 7,7 kg                                                   | 7,7 kg                                                   | 11,56 kg                                                   |
| Material                 | Aluminum extrusion and heavy-duty steel                  | Aluminum extrusion and heavy-duty steel                  | Stainless steel chassis                                    |
| Typ. Application         | Industrial, Marine, Outdoor                              | Industrial, Marine, Outdoor                              | Industrial, Medical, Digital Signage                       |

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11 Artikel aus dem Bereich  
Marine IP6x Panel-PC  
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## Selection Guide Marine IP6x Panel-PC



**21,5" Fanless Touch Panel-PC Typ 2,  
Full IP68**



**21,5" Fanless Touch Panel-PC Typ 1,  
Full IP68**



**21,5" Fanless Touch HMI Panel-PC, Full  
IP65**

### Bestellinformation

Artikel-Nr. PKPX8224

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Celeron G3930TE  
2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8225

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i3-7101TE  
3.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8226

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i5-7500T  
2.7GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8227

21,5" Fanless Touch Panel-PC Typ 2 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i7-7700T  
2.9GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8220

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Celeron 3955U  
2.0GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8221

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i3-6100U  
2.3GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8222

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i5-6300U  
2.4GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8223

21,5" Fanless Touch Panel-PC Typ 1 w/ PCT, Full  
IP68, FHD, 4GB DDR4, Intel®Core i7-6600U  
2.6GHz, 2x GbE LAN, 2x COM, 1.600cd/m<sup>2</sup>

Artikel-Nr. PKPX8126

21,5" Fanless Touch HMI Panel-PC, Full IP65  
All-around w/ 4GB DDR4, Full HD, Intel®Core  
i5-6300U 2.4GHz, 2x GbE LAN, 2x mPCIe, 250  
cd/m<sup>2</sup>, 4x Serial ports

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## Selection Guide Marine IP6x Panel-PC



**21,5" Fanless Touch Panel-PC Front  
IP65 Typ 6**



**21,5" Fanless Touch Panel-PC Front  
IP65 Typ 7**

|                          |                                                                                 |                                                              |
|--------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
| LCD Size                 | 21,5"                                                                           | 21,5"                                                        |
| Active Area              | 477 x 268 mm                                                                    | 477 x 268 mm                                                 |
| Pixel Pitch              | -                                                                               | -                                                            |
| Aspect Ratio             | 16:9                                                                            | 16:9                                                         |
| Display Backlight        | LED Backlight                                                                   | LED Backlight                                                |
| Display Resolution       | 1080p (1.920x1.080)                                                             | 1080p (1.920x1.080)                                          |
| Display Colors           | 16,7M                                                                           | 16,7M                                                        |
| Brightness               | 250 cd/m²                                                                       | 250 cd/m²                                                    |
| Contrast Ratio           | 1.000:1                                                                         | 1.000:1                                                      |
| Response Time            | 1,5 ms / 3,5 ms (Tr / Tf)                                                       | 1,5 ms / 3,5 ms (Tr / Tf)                                    |
| Viewing Angle            | 170° / 160° (H / V)                                                             | 170° / 160° (H / V)                                          |
| Anti Reflection Glass    | Anti-glare treatment (chemical etching)                                         | Anti-glare treatment (chemical etching)                      |
| Strengthened Glass       | 7H                                                                              | 7H                                                           |
| Sunlight Readable        | -                                                                               | -                                                            |
| Gapless Optical Bonding  |                                                                                 |                                                              |
| MTBF                     | 40.000 h                                                                        | 40.000 h                                                     |
| TouchScreen              | PCT 10-point Multi-Touch                                                        | PCT 10-point Multi-Touch                                     |
| Keypad                   | -                                                                               | -                                                            |
| Cooling System           | Fanless                                                                         | Fanless                                                      |
| Mounting System          | 100 x 100 mm VESA, Metal stand (included) Stand                                 | 100 x 100 mm VESA, Metal stand (included) Stand              |
| CPU                      | Intel Core i5-7300U Kaby Lake, Dual Core 2.6GHz                                 | Intel Pentium N4200 Quad Core, up to 2.5GHz                  |
| Chipset                  | Fintek F81866D                                                                  | -                                                            |
| Watchdog Timer           | -                                                                               | -                                                            |
| Basic Equipment          | 8GB                                                                             | 4GB                                                          |
| Maximum Equipment        | 16GB                                                                            | 8GB                                                          |
| SDRAM                    | -                                                                               | -                                                            |
| DIMM / MemorySocket      | DDR4                                                                            | DDR3L                                                        |
| Compact Flash            | -                                                                               | -                                                            |
| SD                       | -                                                                               | -                                                            |
| HD SATA                  | -                                                                               | -                                                            |
| Internal Storage         | 128GB Industrial SSD                                                            | 128GB Industrial SSD                                         |
| Graphic Interface        | Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort, Optional LCD-LVDS | Intel® HD Graphics Graphics Adapter, 1x HDMI, 1x DisplayPort |
| Interface COM            | 1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN                       | 1x RS232/485, 3-PIN - RX, TX, GND, 2x RS232/485, full-PIN    |
| CAN                      | -                                                                               | -                                                            |
| Interface USB            | 2x USB 2.0, 2x USB 3.0                                                          | 2x USB 2.0, 2x USB 3.0                                       |
| Interface LAN            | 2x 10/100/1000 BASE-T, WLAN                                                     | 2x 10/100/1000 BASE-T, WLAN                                  |
| Interface IO             | GPIO, Digital Input, Digital Output                                             | GPIO, Digital Input, Digital Output                          |
| Mini PCIe                | 1x                                                                              | -                                                            |
| Camera                   |                                                                                 |                                                              |
| Bluetooth                | -                                                                               | -                                                            |
| Audio                    | 1x MIC-In                                                                       | 1x MIC-In                                                    |
| Speakers                 | -                                                                               | -                                                            |
| RFID                     | -                                                                               | -                                                            |
| SIM Card                 | -                                                                               | -                                                            |
| GPS                      | -                                                                               | -                                                            |
| Mobile Communication 2G  | -                                                                               | -                                                            |
| Mobile Communication 3G  | -                                                                               | -                                                            |
| PCIe                     | 1x PCIe1 Straddle Connector                                                     | 1x PCIe1 Straddle Connector                                  |
| Operating System         | Linux Ubuntu (preinstalled)                                                     | Linux Ubuntu (preinstalled)                                  |
| Operating System Support | Linux Ubuntu + Windows 10                                                       | Linux Ubuntu + Windows 10                                    |
| Input Voltage Nominal    | -                                                                               | -                                                            |
| Input Voltage Min/Max    | 100 to 240VACDC                                                                 | 100 to 240VACDC                                              |
| Output Voltage Nominal   | 12VDC                                                                           | 12VDC                                                        |
| Output Voltage Min/Max   | -                                                                               | -                                                            |
| Input Current            | 42W                                                                             | 24W                                                          |
| Operating Temperature    | -10°C to 60°C                                                                   | -10°C to 60°C                                                |
| Storage Temperature      | -                                                                               | -                                                            |
| Relative Humidity        | 10% to 90%                                                                      | 10% to 90%                                                   |
| Protection               | IP65 front housing, IP40 back housing                                           | IP65 front housing, IP40 back housing                        |
| Certification            | -                                                                               | -                                                            |
| Dimensions               | 532 x 331 x 71 mm (L x W x H)                                                   | 532 x 331 x 62 mm (L x W x H)                                |
| Weight                   | 5,2 Kg                                                                          | 6,8 Kg                                                       |
| Material                 | Aluminum                                                                        | Rubber front case, Aluminum IPC back case                    |
| Typ. Application         | Industrial, Marine, Digital Signage, Outdoor                                    | Industrial, Marine, Digital Signage, Outdoor                 |

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## Selection Guide Marine IP6x Panel-PC



**21,5" Fanless Touch Panel-PC Front  
IP65 Typ 6**



**21,5" Fanless Touch Panel-PC Front  
IP65 Typ 7**

|                    |                                                                                                                                                                                            |                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bestellinformation | <p>Artikel-Nr. PKPX8228</p> <p>21,5" Fanless Touch Panel-PC Front IP65 Typ 6<br/>w/ PCT, 8GB DDR3L, Intel Core i5-7300U, FHD,<br/>250cd/m², HDMI+DP, Linux Ubuntu, Optical<br/>Bonding</p> | <p>Artikel-Nr. PKPX8229</p> <p>21,5" Fanless Touch Panel-PC Front IP65 Typ 7<br/>w/ PCT, 4GB DDR3L, Intel® Pentium® N4200,<br/>FHD, 250cd/m², HDMI+DP, IP65 front, Linux<br/>Ubuntu, Optical Bonding</p> |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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