



OT1400 Operator Terminal for support arm mounting Panel PC Series

The operator terminals of the OT1400 series are a combination of state-of-the-art technology, flexibility, long-term availability and contemporary design. The large selection of screen diagonals, performance classes and mass storage options ensures an optimum price performance ratio.

Haptic operating elements such as buttons and switches can be selected as required and arranged flexibly on the device. Thanks to the direct real-time integration on the machine controls via fieldbus or direct wiring, these are suitable both for setting operation as well as for emergency shutdowns. Additional access control elements such as keyswitches and RFID reader units for two-factor authentication are available in addition to the typical screen passwords.

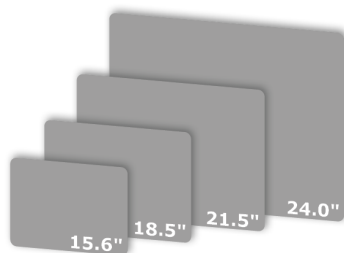
The fully enclosed device is designed for free-standing operation in industrial environments – the OT1400 panel PCs can be positioned directly on swing arms or brackets or on plinths without the need for supporting control panels or cabinet doors. Operation is thus also possible at different operating positions and without any restriction in viewing angle with just a single device.

All models of the OT1400 product series offer projective-capacitive multi-touch operation and captivatingly brilliant full HD displays in 15.6" to 24" widescreen diagonals. The consistent use of industrially robust components protects the investment made through long-term availability, a long lifespan and robust design.

An industrially robust embedded operating system is provided in the form of Windows 10 IoT Enterprise. The units are supplied as standard with everything required for the troublefree operation of a web visualization software such as atvise®. Installation can be adapted individually to customer requirements and can be factory shipped already preconfigured to ensure efficient commissioning.

Part type designation	Part number
OT1415WM/BE1/CEG7/4G/ P/M.264/W10E/atvise®	Configuration dependent
OT1418WM/BE1/CEG7/4G/ P/M.264/W10E/atvise®	Configuration dependent
OT1421WM/BE1/CEG7/4G/ P/M.264/W10E/atvise®	Configuration dependent
OT1424WM/BE1/CEG7/4G/ P/M.264/W10E/atvise®	Configuration dependent

... other variants on request



Features

- Processor/RAM:
Intel Celeron 3965U
Intel Core i3-7100U
Intel Core i5-7300U
Intel Core i7-7600U
Up to 16 GB DDR4 RAM
- Ultra-fast SSD mass storage up to 512 GB
- Integrated interfaces:
2x GBit/s Ethernet, 2x USB 3.0, 2x USB 2.0, 1x Display-Port
1x EIA-232/422/485, further optional interfaces
- Optional fieldbus connection for operating elements
EtherCAT, EtherNet/IP, PROFINET
- Operating system: Windows 10 IoT Enterprise

OT1400 Product Series

Processor and memory				
Processor	Intel Celeron 3965U 2x 2.20 GHz [CEG7] Intel Core i3-7100U 2x 2.4 GHz [I3G7] Intel Core i5-7300U 2x 2.6 GHz [I5G7] Intel Core i7-7600U 2x 2.8 GHz [I7G7]			
Working memory	4 GB, 8 GB or 16 GB DDR4 RAM			
Mass storage				
M.2	1x 64 GB to 512 GB (internal)			
Display (Widescreen)	15WM	18WM	21WM	24WM
Diagonal	15.6"	18.5"	21.5"	24"
Resolution	1920 × 1080			
Display brightness	450 cd/m ²	500 cd/m ²	400 cd/m ²	300 cd/m ²
Half brightness min.	50 000 h			
Contrast ratio	800:1	1000:1	1000:1	5000:1
Viewing angle (L, R, U, D)	85°/85°/85°/85°	89°/89°/89°/89°	89°/89°/89°/89°	89°/89°/89°/89°
Touch	Projected-capacitive multitouch			
Design				
Design	OT1400 rounded			
Interfaces				
Ethernet	2x 100/1000 Mbit			
USB	2x USB 3.0, 2x USB 2.0			
Video	1x DisplayPort			
Power supply				
Supply	24 V DC (10.8 V DC to 28.8 V DC)			
Uninterruptable power supply (USV)	Yes (optional)			
Operating Elements (Configuration-Dependent)				
Pushbutton	2x NO, 2x NC, 1x NC + 1x NO blue, yellow, green, red, white, transparent			
Selector switch	2x NO, 2x NC, 1x NC + 1x NO 1x 90°, 2x 60°, 1x 60° + 1x 40°, 2x 40°, latching/touching			
Key switch	2x NO, 2x NC, 1x NC + 1x NO 1x 90°, 2x 90°, latching/touching			
Emergency stop	2x NO + 1x NC			
USB socket	USB 2.0			
RFID reader	Yes			
Fieldbus connection (optional)				
EtherNet/IP	Yes			
EtherCAT®	Yes			
Profinet	Yes			
Environmental conditions				
Operating temperature	0 °C to +50 °C			
Storage temperature	-20 °C to +70 °C			
Relative humidity	5 % to 80 % noncondensing			
Degree of protection	IP65 front / IP20 rear (only in the area of the connection panel, can be optionally upgraded to IP65)			

Software				
Operating system	Windows 10 IoT Enterprise (64-bit)			
Pre-installed software	Industrial Browser Configuration software (TSSW) atvise (web visualization)			
Dimensions [mm]	15WM	18WM	21WM	24WM
Outer contour W × H [mm]	412 × 320	477 × 357	548 × 398	604 × 431
Depth [mm]	62			
Weight [kg]	5	6.5	7.5	9
Mounting system	VESA 75/100			
Certifications				
CE	Yes			
UKCA	Yes			
RoHS	Yes			
RoHS China	Yes			
UL and CUL	In preparation			

Order data

Part type designation	Part number	Description
OT1415WM/BE1/CEG7/ 4G/P/M.264/W10E/atvise®	Configuration dependent	Operator Terminal: 15.6" (1920 × 1080); projected-capacitive multi-touch; Intel Celeron 3965U (2x 2.20 GHz); 4 GB DDR4 RAM; 2x ETH 10/100/1000; 2x USB 3.0; 2x USB 2.0; 1x DisplayPort; 64 GB M.2 SSD; OS: Windows 10 IoT Enterprise (64-bit) incl. atvise hmi license
OT1418WM/BE1/CEG7/ 4G/P/M.264/W10E/atvise®	Configuration dependent	Operator Terminal: 18.5" (1920 × 1080); projected-capacitive multi-touch; Intel Celeron 3965U (2x 2.20 GHz); 4 GB DDR4 RAM; 2x ETH 10/100/1000; 2x USB 3.0; 2x USB 2.0; 1x DisplayPort; 64 GB M.2 SSD; OS: Windows 10 IoT Enterprise (64-bit) incl. atvise hmi license
OT1421WM/BE1/CEG7/ 4G/P/M.264/W10E/atvise®	Configuration dependent	Operator Terminal: 21.5" (1920 × 1080); projected-capacitive multi-touch; Intel Celeron 3965U (2x 2.20 GHz); 4 GB DDR4 RAM; 2x ETH 10/100/1000; 2x USB 3.0; 2x USB 2.0; 1x DisplayPort; 64 GB M.2 SSD; OS: Windows 10 IoT Enterprise (64-bit) incl. atvise hmi license
OT1424WM/BE1/CEG7/ 4G/P/M.264/W10E/atvise®	Configuration dependent	Operator Terminal: 24" (1920 × 1080); projected-capacitive multi-touch; Intel Celeron 3965U (2x 2.20 GHz); 4 GB DDR4 RAM; 2x ETH 10/100/1000; 2x USB 3.0; 2x USB 2.0; 1x DisplayPort; 64 GB M.2 SSD; OS: Windows 10 IoT Enterprise (64-bit) incl. atvise hmi license