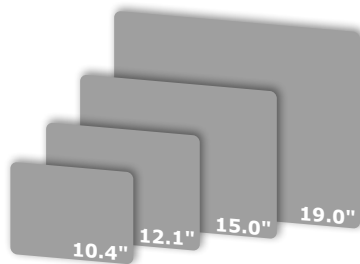
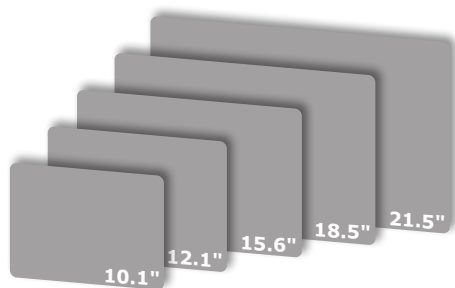


# Operator Terminals



## OT1300 Operator Terminal

The operator terminals of the OT1300 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.

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 trouble-free 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.

The latest devices of the OT1300 product series with projected capacitive multi-touch operation stand out on account of their new design and brilliant full HD display with 10.1" to 21.5" widescreen diagonals. The use of industrially robust components throughout ensures long-term availability, a long lifespan and thus investment protection. The fan-free construction without any moving parts meets the most demanding requirements with regard to shock and vibration.

### Features:

- Processor/RAM:
  - Intel Celeron 3955U
  - Intel Core i3-6100U
  - Intel Core i5-6300U
  - Intel Core i7-6600U
- Ultra-fast CFast or SSD mass storage
- Interfaces: 2x GBit/s Ethernet, 2x USB3.0, 2x USB 2.0, 1x USB-C, 1x HDMI; additional interfaces can be added
- Standard operating temperature: 0 to +60 °C fan-free
- Operating system: Windows 10 IoT Enterprise
- Extended temperature range on request

E variant (basic)	Item-No.
OT1310WM/BE1/CEG6/4G/P/M.232/W10E	00034834-00
OT1312WM/BE1/CEG6/4G/P/M.264/W10E	00034835-00
OT1315WM/BE1/CEG6/4G/P/M.264/W10E	00034836-00
OT1318WM/BE1/CEG6/4G/P/M.264/W10E	00034719-00
OT1321WM/BE1/CEG6/4G/P/M.264/W10E	00034837-00

... other variants on request.

# Operator Terminals

OT1300 Product Series					
Processor and Memory					
Processor	Intel Celeron 3955U 2x 2.00 GHz [CEG6] Intel Core i3-6100U 2x 2.30 GHz [I3G6] Intel Core i5-6300U 2x 2.40 (3.00) GHz [I5G6] Intel Core i7-6600U 2x 2.60 (3.40) GHz [I7G6]				
Working memory	4 or 8 GB DDR4 RAM				
Mass Storage					
M.2	1x optional, 32 to 512 GB (internal)				
CFast	1x optional, 16 to 128 GB (exchangeable)				
Display (Widescreen)	10WM	12WM	15WM	18WM	21WM
Diagonals	10.1"	12.1"	15.6"	18.5"	21.5"
Resolution	1280x800	1280x800	1920x1080	1920x1080	1920x1080
Display brightness	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Half brightness min.	50,000 h	50,000 h	50,000 h	70,000 h	30,000 h
Viewing angle (L, R, U, D)	85/85/85/85°	89/89/89/89°	85/85/85/85°	89/89/89/89°	89/89/89/89°
Touch	Projected-capacitive multi-touch				
Display (4:3/5:4)	10	12	15	19	–
Diagonals	10.4"	12.1"	15"	19"	–
Resolution	640x480	800x600	1024x768	1280x1024	
Display brightness	450 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	
Half brightness min.	50,000 h	50,000 h	50,000 h	50,000 h	
Viewing angle (L, R, U, D)	80/80/60/80°	80/80/65/70°	85/85/85/85°	89/89/89/89°	
Touch	Analog resistive touch				
Design					
Design	Bachmann standard (neutral) Custom designs on request				
Interfaces					
Ethernet	2x 10/100/1000 MBit				
USB	2x USB 3.0, 2x USB 2.0, 1x USB-C				
Video	1x HDMI				
Power supply	24 V DC (18 to 34 V DC)				
Ambient Conditions	10.1" to 19"				21.5"
Operating temperature	0 to +60 °C				0 to +55 °C
Storage temperature	-20 to +70 °C				
Relative humidity	5 to 95 % without condensation				
Degree of protection	IP65 front / IP20 rear				
Software					
Operating systems	Windows 10 IoT Enterprise (64-bit)				
System software	Industrial browser TSSW configuration software TSSW device interface (REST API)				

# Operator Terminals

OT1300 Product Series					
Dimensions [mm]	10WM	12WM	15WM	18WM	21WM
Cutout WxH [mm]	283 x 210	329 x 240	413 x 273	479 x 312	550 x 352
Outer contour WxH [mm]	298 x 225	344 x 255	428 x 288	493 x 326	564 x 366
Depth [mm]	75	76	76	74	75
Weight [kg]	3,35	4,70	5,50	5,85	7,00
Dimensions [mm]	10	12	15	19	-
Cutout WxH [mm]	290 x 214	321 x 233	386 x 288	452 x 356	
Outer contour WxH [mm]	310 x 234	341 x 253	406 x 308	471 x 375	
Depth [mm]	69	69	77	77	-
Weight [kg]	3,10	3,65	4,90	6,60	
Certifications					
CE	Yes				
RoHS	Yes				
RoHS China	Yes				
UL und CUL	Yes				
CCC	Yes				

OT1300 Order Codes		
Item	Item-No.	Description
OT1310WM/BE1/CEG6/4G/P/M.232/W10E	00034834-00	Operator Terminal: 10.1" (1280x800); Projected-Capacitive Multi-Touch; Intel Celeron 3955U (2x 2.00 GHz); 4 GB DDR4 RAM; 2x Eth 10/100/1000; 2x USB3.0; 2x USB2.0; 1x USB-C; 1x HDMI; CFast-Slot; OS: Windows 10 IoT Enterprise (64-bit)
OT1312WM/BE1/CEG6/4G/P/M.264/W10E	00034835-00	Operator Terminal: 12.1" (1280x800); Projected-Capacitive Multi-Touch; Intel Celeron 3955U (2x 2.00 GHz); 4 GB DDR4 RAM; 2x Eth 10/100/1000; 2x USB3.0; 2x USB2.0; 1x USB-C; 1x HDMI; CFast-Slot; OS: Windows 10 IoT Enterprise (64-bit)
OT1315WM/BE1/CEG6/4G/P/M.264/W10E	00034836-00	Operator Terminal: 15.6" (1920x1080); Projected-Capacitive Multi-Touch; Intel Celeron 3955U (2x 2.00 GHz); 4 GB DDR4 RAM; 2x Eth 10/100/1000; 2x USB3.0; 2x USB2.0; 1x USB-C; 1x HDMI; CFast-Slot; OS: Windows 10 IoT Enterprise (64-bit)
OT1318WM/BE1/CEG6/4G/P/M.264/W10E	00034719-00	Operator Terminal: 18.5" (1920x1080); Projected-Capacitive Multi-Touch; Intel Celeron 3955U (2x 2.00 GHz); 4 GB DDR4 RAM; 2x Eth 10/100/1000; 2x USB3.0; 2x USB2.0; 1x USB-C; 1x HDMI; CFast-Slot; OS: Windows 10 IoT Enterprise (64-bit)
OT1321WM/BE1/CEG6/4G/P/M.264/W10E	00034837-00	Operator Terminal: 21.5" (1920x1080); Projected-Capacitive Multi-Touch; Intel Celeron 3955U (2x 2.00 GHz); 4 GB DDR4 RAM; 2x Eth 10/100/1000; 2x USB3.0; 2x USB2.0; 1x USB-C; 1x HDMI; CFast-Slot; OS: Windows 10 IoT Enterprise (64-bit)