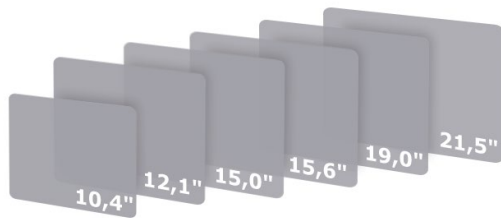


# Operator Terminals



## OT1300 Operator Terminal

With different screen diagonals, capacity options, and the choice of Windows or Linux as operating systems, the right solution is provided for every visualization. On the software side, the OT1300 is optimally prepared for use with M1 webMI pro, or as client or server on atvise SCADA. We would be pleased to also deliver the desired software configuration ex-factory.

The latest devices of the OT1300 product family with projective-capacitive multi-touch are impressive in the new design with brilliant full HD displays in the widescreen diagonals 15.6" and 21.5".

Consistent use of industrial grade components guarantees long-term availability, a long service life, and thus investment security. The fanless design without moving parts satisfies the most rigorous requirements imposed on shock and vibration.

### Features:

- Processor/RAM:  
 AMD G-T40E (2x 1.0 GHz) / 2 GB DDR3 RAM  
 Intel Celeron 847E (2x 1.1 GHz) / 2 GB DDR3 RAM  
 Intel Celeron 3955U (2x 2.0 GHz) / 4 GB DDR4 RAM  
 Intel Core i7-3517UE (2x 1.7 GHz) / 4 GB DDR3 RAM  
 Intel Core i7-6600U (2x 2.6 GHz) / 4 GB DDR4 RAM
- Ultrafast CFast or SSD mass memory
- SATA HDD or SSD options for large volume storage
- Interfaces (standard device): 1x or 2x GBit Ethernet, 4x USB2.0, 1x RS232
- Standard operating temperature: 0 to +60 °C, fanless
- Operating systems: Linux Embedded, Windows Embedded Standard 7, Windows 10 IoT Enterprise
- Enhanced temperature range on request

Item	Item no.
OT1310/BE1/GT1G0/2G/4G0/LX	00022647-00
OT1312/BE1/GT1G0/2G/4G0/LX	00022646-00
OT1315/BE1/GT1G0/2G/4G0/LX	00022645-00
OT1319/BE1/GT1G0/2G/4G0/LX	00022644-00
OT1310/BE1/GT1G0/2G/8G0/WES7E	00023273-10
OT1312/BE1/GT1G0/2G/8G0/WES7E	00022882-10
OT1315/BE1/GT1G0/2G/8G0/WES7E	00023275-10
OT1319/BE1/GT1G0/2G/8G0/WES7E	00023276-10
OT1312/BE1/CE1G1/2G/SSD64/WES7P	00023501-00
OT1315/BE1/CE1G1/2G/SSD64/WES7P	00023502-00
OT1319/BE1/CE1G1/2G/SSD64/WES7P	00024295-00
OT1315WM/BE1/CE1G1/2G/SSD64/WES7P	00027128-00
OT1321WM/BE1/CE1G1/2G/SSD64/WES7P	00027401-00
OT1312/BE1/CO1G7/4G/SSD64/WES7P	00024293-00
OT1315/BE1/CO1G7/4G/SSD64/WES7P	00024294-00
OT1319/BE1/CO1G7/4G/SSD64/WES7P	00023870-00
OT1315WM/BE1/CO1G7/4G/SSD64/WES7P	00027402-00
OT1321WM/BE1/CO1G7/4G/SSD64/WES7P	00027129-00

... other variants on request.

## Operator Terminals

OT1300 Series	OT1310/BE1/ GT1G0	OT1312/BE1/ GT1G0	OT1315/BE1/ GT1G0	OT1319/BE1/ GT1G0
<b>Display</b>				
Diagonal	10.4" VGA (640x480)	12.1" SVGA (800x600)	15" XGA (1024x768)	19" SXGA (1280x1024)
Display type	Color TFT			
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			
<b>Processor/RAM</b>				
Processor	AMD G-T40E (2x 1 GHz)			
RAM	2 GB			
<b>Mass storage</b>				
SSD	-			
CFast card	4 GB (Linux) or 8 GB (Windows)			
<b>Control/display elements</b>				
Touch screen type <sup>1)</sup>	Analog resistive, membrane front			
System LEDs	Power, Diag, Act			
<b>Interfaces</b>				
Ethernet 10/100/1000 MBit	1x			
USB 2.0	4x			
<b>Power supply</b>				
Power supply	24 V DC (18 to 36 V)			
<b>Software</b>				
Operating systems	Linux Embedded Windows Embedded Standard 7			
Visualization <sup>2)</sup>	atvise® scada / M1 webMI pro			
<b>Ambient conditions</b>				
Operating temperature	0 to +60 °C fanless			
Storage temperature	-20 to +80 °C			
Rel. humidity operation / storage	5 to 95 % without condensation			
<b>Dimensions and weight</b>				
Dimensions (W x H x D)	310 x 234 x 68 mm	341 x 253 x 68 mm	406 x 308 x 75 mm	471 x 375 x 76 mm
Weight	Approx. 2.5 kg	Approx. 3.0 kg	Approx. 4.5 kg	Approx. 6.0 kg
<b>Certifications</b>				
General	CE, UL, cUL, cULus, CCC, ABS <sup>3)</sup> , BV <sup>3)</sup> , DNV_GL <sup>3)</sup> , LR <sup>3)</sup>			

1) Customer-specific front panel on request

2) Not included

3) Up to a diagonal of 15"

# Operator Terminals

OT1300 Series	OT1312/BE1/	OT1315/BE1/	OT1319/BE1/
<b>Display</b>			
Diagonal	12.1" SVGA (800x600)	15" XGA (1024x768)	19" SXGA (1280x1024)
Display type	Color TFT		
Display brightness	450 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
Half-brightness	Min. 50,000 h		
<b>Processor/RAM</b>			
Processor	Intel Celeron 847E (CE1G1, 2x 1.1 GHz) Intel Celeron 3955U (CE2G0, 2x 2.0 GHz) Intel Core i7-3517UE (CO1G7, 2x 1.7 GHz)		
RAM	2 GB RAM (CE1G1) or 4 GB RAM		
<b>Mass storage</b>			
SSD	60/64 GB		
CFast card	Optional		
<b>Control/display elements</b>			
Touch screen type <sup>1)</sup>	Analog-resistive, membrane front		
System LEDs	Power, Diag, Act		
<b>Interfaces</b>			
Ethernet 10 / 100 / 1000 MBit	2x		
USB 2.0	4x		
RS232	1x		
<b>Power supply</b>			
Power supply	24 V DC (18 to 36 V), galvanically isolated		
<b>Software</b>			
Operating systems <sup>2)</sup>	Windows Embedded Standard 7 Windows 10 IoT Enterprise (CE2G0)		
Visualization <sup>3)</sup>	atvise® scada / M1 webMI pro		
<b>Ambient conditions</b>			
Operating temperature	0 to +60 °C fanless		
Storage temperature	-20 to +70 °C		
Rel. humidity operation / storage	5 to 95 % without condensation		
<b>Dimensions and weight</b>			
Dimensions (W x H x D)	341 x 253 x 74 mm	406 x 308 x 81 mm	471 x 375 x 82 mm
Weight	Approx. 3.5 kg	Approx. 5.0 kg	Approx. 6.5 kg
<b>Certifications</b>			
General	CE, UL, cUL, cULus, CCC, ABS <sup>4)</sup> , BV <sup>4)</sup> , DNV_GL <sup>4)</sup> , LR <sup>4)</sup>		

1) Customer-specific front panel on request

2) Windows Embedded Standard 8 on request

3) Not included

4) Up to a diagonal of 15" inclusive with Intel Celeron 847E and Intel Core i7-3517UE

# Operator Terminals

OT1300 Series Multi Touch	OT1315WM/BE1/	OT1321WM/BE1/
<b>Display</b>		
Diagonal	15.6"	21.5"
Resolution	1920x1080 (FHD)	1920x1080 (FHD)
Display brightness	400 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Contrast	1500:1	3.000:1
Viewing angle (L, R, U, D)	85/85/85/85 °	89/89/89/89 °
Life expectancy (half brightness)	70,000 h	30,000 h
<b>Processor/RAM</b>		
Processor	Intel Celeron 847E (CE1G1, 2x 1.1 GHz) Intel Celeron 3955U (CE2G0, 2x 2.0 GHz) Intel Core i7-3517UE (CO1G7, 2x 1.7 GHz) Intel Core i7-6600U (CO2G6, 2x 2.6 GHz)	
RAM	2 GB RAM (CE1G1) or 4 GB RAM	
<b>Mass storage</b>		
SSD	60/64 GB	
CFast-Card Slot	Optional	
<b>Control/display elements</b>		
Touch screen type	Projective-capacitive multi touch	
Design	Custom marking on request	
LEDs and control keys	Custom design on request	
<b>Interfaces</b>		
Ethernet 10/100/1000 MBit	2x	
USB 2.0	4x	
RS232	1x	
<b>Power supply</b>		
Power supply	24 V DC (18 to 36 V), galvanically isolated	
<b>Software</b>		
Operating systems <sup>2)</sup>	Windows Embedded Standard 7 Windows 10 IoT Enterprise (CE2G0, CO2G6)	
Visualization <sup>3)</sup>	atvise® scada / M1 webMI pro	
<b>Ambient conditions</b>		
Operating temperature	0 to +60 °C fanless	0 to +55 °C fanless (0 to 60 °C fanless on request)
Storage temperature	-20 to +70 °C	
Rel. humidity operation / storage	5 to 95 % without condensation	
<b>Dimensions and weight</b>		
Dimensions (W x H x D)	428 x 288 x 78.5 mm	564 x 366 x 78.5 mm
Weight	Approx. 3.75 kg	Approx. 5.95 kg
<b>Certifications</b>		
General	CE, UL, cUL, cULus, CCC, ABS <sup>4)</sup> , BV <sup>4)</sup> , DNV_GL <sup>4)</sup> , LR <sup>4)</sup>	

1) Customer-specific front panel on request

2) Windows Embedded Standard 8 on request

3) Not included

4) Up to a diagonal of 15.6" inclusive with Intel Celeron 847E and Intel Core i7-3517UE

# Operator Terminals

## Order codes OT1300 Series

Item	Item no.	Description
OT1310/BE1/ GT1G0/2G/4G0/LX	00022647-00	Operator Terminal: 10.4"; VGA (640x480); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 4 GB; OS: Linux Standard; operating temp. 0 .. +60 °C
OT1312/BE1/ GT1G0/2G/4G0/LX	00022646-00	Operator Terminal: 12.1"; SVGA (800x600); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 4 GB; OS: Linux Standard; operating temp. 0 .. +60 °C
OT1315/BE1/ GT1G0/2G/4G0/LX	00022645-00	Operator Terminal: 15"; XGA (1024x768); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 4 GB; OS: Linux Standard; operating temp. 0 .. +60 °C
OT1319/BE1/ GT1G0/2G/4G0/LX	00022644-00	Operator Terminal: 19"; SXGA (1280x1024); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 4 GB; OS: Linux Standard; operating temp. 0 .. +60 °C
OT1310/BE1/ GT1G0/2G/8G0/WES7E	00023273-10	Operator Terminal: 10.4"; VGA (640x480); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 8 GB; OS: Windows Embedded Standard 7 E; operating temp. 0 .. +60 °C
OT1312/BE1/ GT1G0/2G/8G0/WES7E	00022882-10	Operator Terminal: 12.1"; SVGA (800x600); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 8 GB; OS: Windows Embedded Standard 7 E; operating temp. 0 .. +60 °C
OT1315/BE1/ GT1G0/2G/8G0/WES7E	00023275-10	Operator Terminal: 15"; XGA (1024x768); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 8 GB; OS: Windows Embedded Standard 7 E; operating temp. 0 .. +60 °C
OT1319/BE1/ GT1G0/2G/8G0/WES7E	00023276-10	Operator Terminal: 19"; SXGA (1280x1024); Resistive Touch; AMD G-T40E (2x 1 GHz); 2 GB DDR3 RAM; 1x Eth10/100/1000; 4x USB2.0; CFast-Card 8 GB; OS: Windows Embedded Standard 7 E; operating temp. 0 .. +60 °C
OT1312/BE1/CE1G1/2G/ SSD64/WES7P	00023501-00	Operator Terminal: 12.1"; SVGA (800x600); Resistive Touch; Intel Celeron 847E (2x 1.1 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1315/BE1/CE1G1/2G/ SSD64/WES7P	00023502-00	Operator Terminal: 15"; XGA (1024x768); Resistive Touch; Intel Celeron 847E (2x 1.1 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1319/BE1/CE1G1/2G/ SSD64/WES7P	00024295-00	Operator Terminal: 19"; SXGA (1280x1024); Resistive Touch; Intel Celeron 847E (2x 1.1 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C

## Operator Terminals

Order codes OT1300 Series		
Item	Item no.	Description
OT1315WM/BE1/ CE1G1/2G/SSD64/WES7P	00027128-00	Operator Terminal: 15.6" (1920x1080); Projected-Capacitive Multi-Touch; Intel Celeron 847E (2x 1.1 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1321WM/BE1/ CE1G1/2G/SSD64/WES7P	00027401-00	Operator Terminal: 21.5" (1920x1080); Projected-Capacitive Multi-Touch; Intel Celeron 847E (2x 1.1 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +55 °C
OT1312/BE1/CO1G7/4G/ SSD64/WES7P	00024293-00	Operator Terminal: 12.1"; SVGA (800x600); Resistive Touch; Intel Core i7 (2x 1.7 GHz); 4 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1315/BE1/CO1G7/4G/ SSD64/WES7P	00024294-00	Operator Terminal: 15"; XGA (1024x768); Resistive Touch; Intel Core i7 (2x 1.7 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1319/BE1/CO1G7/4G/ SSD64/WES7P	00023870-00	Operator Terminal: 19"; SXGA (1280x1024); Resistive Touch; Intel Core i7 (2x 1.7 GHz); 2 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1315WM/BE1/ CO1G7/4G/SSD64/WES7P	00027402-00	Operator Terminal: 15.6" (1920x1080); Projected-Capacitive Multi-Touch; Intel Core i7 (2x 1.7 GHz); 4 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +60 °C
OT1321WM/BE1/ CO1G7/4G/SSD64/WES7P	00027129-00	Operator Terminal: 21.5" (1920x1080); Projected-Capacitive Multi-Touch; Intel Core i7 (2x 1.7 GHz); 4 GB DDR3 RAM; 2x Eth10/100/1000; 4x USB2.0; 1x RS232; SSD 60/64 GB 2,5" SATA; CFast-Card-Slot; OS: Windows Embedded Standard 7 P; operating temp. 0 .. +55 °C