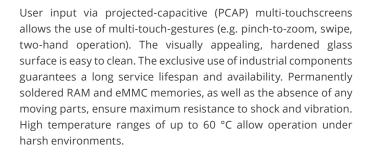


## **OT1200 Web Terminal**

The specifications and interfaces of the OT1200 web terminal make it the ideal choice for small and medium web visualizations, such as atvise<sup>®</sup>.

Brilliant displays with high brightness, strong colors, very good viewing angles and a long service life make a lasting impression. The modern widescreen diagonals (7", 10.1", 12.1", 15.6") offer high resolutions, e.g. 15.6" with Full-HD. The display lifetime (half brightness) of over 50,000 hours lies within the premium segment.



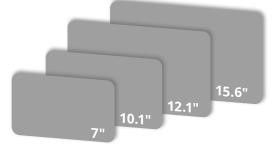
The pre-installed browser is designed for industrial applications. An integrated onscreen-keyboard enables convenient user input and reduces development efforts. Unwanted, automatic updates are prohibited, ensuring that only released software is used in the field, reducing downtime to a minimum.

The Linux system (based on Debian) provides an easy to use, webbased configuration tool. Configuration settings can be changed directly on the device or remote via browser. The system software includes further useful services, e.g. SSH, NTP, VNC, as well as a Web-API for secure hardware access. The API can be used to react to hardware keys, control LEDs and display brightness, and much more.

We will gladly supply your required software configuration direct from the factory: unpack, connect, done.

## **Features:**

- · Pre-installed and easy to configure web-browser
- Gesture control with PCAP Multi-Touch
- · Ideal for all kinds of web-visualization
- Visualize data from OPC-UA sources in combination with atvise<sup>®</sup>
- Brilliant display with high resolutions in 7", 10.1", 12.1" and 15.6" widescreen
- Cortex<sup>®</sup>-A9 Dual-Core CPU, 2x ETH 10/100, 2x USB, CFast-Slot, 4 GB eMMC onboard
- Robust design and extended temperature range up to +60 °C



OT1200 Series	OT1207
Display	
Diagonals	7"
Resolution	800x480
Brightness	450 cd/m <sup>2</sup>
Contrast	800:1
Viewing angle (L, R, U, D)	89/89/89 °
Life expectancy (half brightness)	50,000 h
Processor/RAM	
Processor	ARM® Cortex®-A9 i.MX6Dual
RAM	1 GB DDR3 RAM
Mass Storage	
Mass storage integrated	4 GB eMMC <sup>1)</sup>
Control/Display Elements	
Touch screen type	Analog resistive touch
Design	Custom marking on request
LEDs and control keys	Custom design on request
Interfaces	
Ethernet 10/100 MBit	1x RJ45
USB	2x USB 2.0
Power Supply	
Power supply	24 V DC (18 to 36 V)
Mating plug	MC1, 5/3-STF-3,5 (2-pol.)
Reverse polarity protection	Yes
Galvanic isolation	No
Electrical Safety	
Protection class (DIN EN 61140)	III
Degree of protection (IEC 60529)	IP65 in front
	IP20 at rear
Ambient Conditions	
Operating temperature	0 to +60 °C fanless
Rel. humidity operation	5 to 95% without condensation
Storage temperature	-20 to +70 °C
Rel. humidity storage	5 to 95% without condensation
Installation altitude	2,000 to 4,500 m above sea level: Temperature reduction of 0.5 Kelvin (K) per 100 m height
Pollution degree (IEC 60664-1)	2
Approvals / Certificates	
Product safety	CE, cULus, CCC

1) At delivery, approx. 1.2 GB occupied by system software

OT1200 Series	OT1207
Software	
Operating system	Linux Embedded (Debian)
Visualization software	Industrial Browser
	Visualization server with atvise® available
Other Software	Bachmann Terminal Setup Software (TSSW)
	SSH Server
	VNC Server
	NTP Client
	Firewall
	Screen saver
	and many more useful software packages. Additional software packages can
	be installed subsequently.

Order Code		
ltem-No.	Item	Description
OT1207W/BE1/MX6/ 1G/EMC/04/LX	00025995-00	Operator Terminal: 7" (800x480); Resistive Touch; Freescale ARM® Cortex®-A9 i.MX6Dual; 1 GB DDR3 RAM; 1x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; OS: Linux Embedded; Operating Temp. 0 +60 °C
OT1207W/BE1/MX6/ 1G/EMC04/LX/atvise®	00033189-00	Operator Terminal: 7" (800x480); Resistive Touch; Freescale ARM® Cortex®-A9 i.MX6Dual; 1 GB DDR3 RAM; 1x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; OS: Linux Embedded inkl. atvise® hmi; Operating Temp. 0 +60 °C

OT1200+ Series	OT1207+	OT1210+	OT1212+	OT1215+
Display				
Diagonals	7"	10.1"	12.1"	15.6"
Resolution	800x480	1280x800	1280x800	1920x1080
Brightness	450 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Contrast	800:1	800:1	1.000:1	1500:1
Viewing angle (L, R, U, D)	89/89/89/89 °	85/85/85/85 °	89/89/89/89 °	85/85/85/85 °
Life expectancy (half brightness)	50,000 h	100,000 h	50,000 h	70,000 h
Processor/RAM				
Processor		ARM <sup>®</sup> Cortex <sup>®</sup>	-A9 i.MX6Dual+	
RAM		2 GB DDR RAM		
Mass Storage				
Mass storage integrated		4 GB eMMC <sup>1)</sup>		
Mass storage selectable		Optional CFast (min. 4 GB) <sup>2)</sup>		
Control/Display Elements				
Touch screen type	Resistive	Resistive Projective capacitive multi touch		
Design	Custom marking on	Custom marking on request		
LEDs and control keys	Custom design on r	Custom design on request		
Status indication		1x LED for supply voltage (green) 2x LED for status and speed per ETH socket		
Interfaces				
Ethernet	2x 10/100 (RJ45, sep	2x 10/100 (RJ45, separate)		
USB	2x USB 2.0	2x USB 2.0		
Power Supply				
Power supply	24 V DC (18 to 36 V)	24 V DC (18 to 36 V)		
Mating plug	MC1, 5/3-STF-3,5 (2-	MC1, 5/3-STF-3,5 (2-pol.)		
Reverse polarity protection	Yes	Yes		
Galvanic isolation	No	No		
Electrical Safety				
Protection class (DIN EN 61140)	111			
Degree of protection (IEC 60529)	IP65 in front IP20 at rear			

1) At delivery, approx. 1.2 GB occupied by system software

2) Storage medium not included unless stated in the order description

OT1200+ Series	OT1207+	OT1210+	OT1212+	OT1215+		
Ambient Conditions						
Operating temperature		0 to +60 °C fanless				
Rel. humidity operation		5 to 95% without condensation				
Storage temperature		-20 to +70 °C				
Rel. humidity storage		5 to 95% without condensation				
Installation altitude	Temper	2,000 to 4,500 m above sea level: Temperature reduction of 0.5 Kelvin (K) per 100 m height				
Pollution degree (IEC 60664-1)			2			
Approvals / Certificates						
Product safety		CE, UL, cUL, cULus, CCC				
Software						
Operating system	Linux Embedded (D	Linux Embedded (Debian)				
Visualization software	Industrial Browser Visualization server	r with atvise® availab	ble			
Other Software	SSH Server VNC Server NTP Client Firewall Screen saver	l Setup Software (TS useful software pack	SW) ages. Additional softv	vare packages can		
	be installed subseq	uently.				

Order Code		
ltem-No.	ltem	Description
OT1207WM/BE1/ MX6+/2G/EMC04/LX	00033340-00	Operator Terminal: 7" (800x480); Resistive Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded; Operating Temp. 0 +60 °C
OT1210WM/BE1/ MX6+/2G/EMC04/LX	00033341-00	Operator Terminal: 10.1" (1280x800); Projected-Capacitive Multi-Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded; Operating Temp. 0 +60 °C
OT1212WM/BE1/ MX6+/2G/EMC04/LX	00033342-00	Operator Terminal: 12.1" (1280x800); Projected-Capacitive Multi-Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded; Operating Temp. 0 +60 °C
OT1215WM/BE1/ MX6+/2G/EMC04/LX	00033343-00	Operator Terminal: 15.6" (1920x1080); Projected-Capacitive Multi-Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded; Operating Temp. 0 +60 °C
OT1207WM/BE1/ MX6+/2G/EMC04/LX/atvise <sup>®</sup>	00033344-00	Operator Terminal: 7" (800x480); Resistive Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded incl. atvise® hmi license; Operating Temp. 0 +60 °C
OT1210WM/BE1/ MX6+/2G/EMC04/LX/atvise®	00033345-00	Operator Terminal: 10.1" (1280x800); Projected-Capacitive Multi-Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded incl. atvise® hmi license; Operating Temp. 0 +60 °C
OT1212WM/BE1/ MX6+/2G/EMC04/LX/atvise®	00033346-00	Operator Terminal: 12.1" (1280x800); Projected-Capacitive Multi-Touch; Freescale ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded incl. aatvise® hmi license; Operating Temp. 0 +60 °C
OT1215WM/BE1/ MX6+/2G/EMC04/LX/atvise®	00033347-00	Operator Terminal: 15.6" (1920x1080); Projected-Capacitive Multi-Touch; Freesca- le ARM® Cortex®-A9 i.MX6Dual+; 2 GB DDR3 RAM; 2x Eth 10/100; 2x USB2.0; 4GB eMMC onboard; CFast-Card-Slot; OS: Linux Embedded incl. atvise® hmi; Opera- ting Temp. 0 +60 °C