

All-in-One HMI 15" TFT Touch WBGcMT3151



- Aluminum housing
- 15" TFT LCD graphic display 1024 x 768 pixels
- Fanless cooling system
- Integrated 4 GB flash memory and RTC
- SD card slot supports SD and SDHC cards
- COM1 / COM3 RS485 2-wire supports MPI 187.5 K
- CANopen interface
- COM1 / COM3 RS485 & CAN bus galvanic isolation integrated
- MQTT client/server
- OPC UA Client/Server
- IP65 on the front, NEMA4 compliant
- EasyAccess 2.0 license included
- CODESYS V3 PLC optional

<https://www.wachendorff-prozesstechnik.de/en/WBGcMT3151>

Description

The WBGcMT3151 Smart HMI from Weintek with its dual-core processor enables high performance in the visualization of data. The WBGcMT3151 not only works like an ordinary HMI, but is also a server. This makes it possible to use the cMT Viewer APP on a panel PC (WBGcMTiPC10/15) or a display (WBGcMTiV5) to additionally monitor and control the visualization of the WBGcMT3151 on these devices. The IIoT standard protocols OPC UA and MQTT enable you to communicate between your machines / systems up to the higher-level control / management systems. This ensures simultaneous monitoring and control of your transmission data. This HMI can optionally be equipped with a CODESYS V3 PLC.

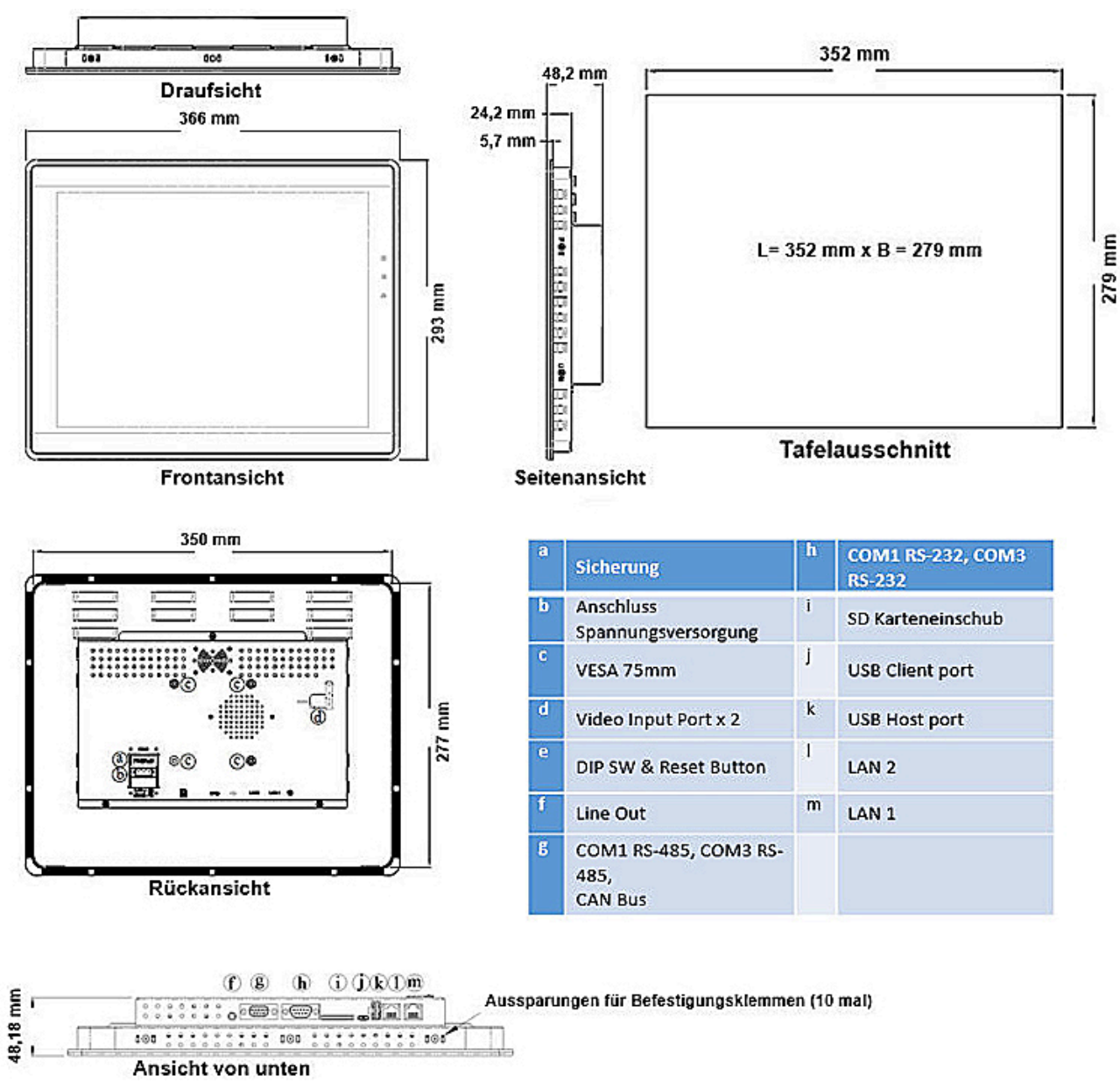
Product details

Display:	Size: 15" TFT Resolution: 1024 x 768 pixels Brightness: 400 cd/m ² Contrast: 700 : 1 Backlight: LED Backlight life: >50,000 hours Colors: 16.2 M LCD viewing angle (up/down/left/right): 70/70/80/80
Touch display:	Type: 5-wire analog resistive. Accuracy: Active range length (X) ±2 %, width (Y) ±2 %
Memory:	Flash: 4 GB RAM: 1 GB
Processor:	32 bit RISC Cortex-A9 1 GHz

Interfaces:	SD card slot: SD/SDHC USB host: 1x USB 2.0 USB client: 1x USB 2.0 (Micro USB) Ethernet: LAN1: 10/100/1000 Base-T x2 LAN2: 10/100 Base-T x2 COM Port: Con A: COM2 RS485 2-/4-wire, COM3 RS485, CAN bus Con B: COM1/COM3 RS232 (only use Tx & RX (not RTS/CTS) for COM1 RS232 if COM3 RS232 is used at the same time) RS485 isolation: Yes CAN Bus: YES HDMI: No Audio Output: Built-in mono speaker and audio line out via 3.5 mm jack plug Video Input: 2x NTSC / PAL
Real-time clock:	Integrated real-time clock RTC
Power supply:	Input voltage: 24 VDC ±20 % Galvanic isolation (input voltage from system voltage): integrated Current consumption: 900 mA at 24 VDC Dielectric strength: 500 VAC (1 min.) Insulation resistance: >50 MOhm at 500 VDC Shock resistance: 10 Hz to 25 Hz (X,Y, Z direction 2 G 30 minutes)
Printed circuit board coating:	Yes, PCB
Housing:	Aluminum
Dimensions:	L/H/D: 366 mm x 293 mm x 48.2 mm Panel cut-out: 352 mm x 279 mm
Weight:	approx. 2.45 kg
Fastening:	Panel mounting, VESA 75 mm x 75 mm
Protection class:	UL Type 4X (for indoor use only) / NEMA4 / front IP65
Ambient temperature:	Operation: 0 °C to +50 °C. Storage: -20 °C to +70 °C. Relative humidity: 10 % to 90 % (non-condensing)
Certificates:	CE cULus

Software:	EasyBuilder Pro
Manufacturer:	Weintek Labs, Inc

Drawings
 Dimensions



Drawings

PIN assignment

9 Pin, Male, D-sub COM1 / COM3 [RS232]

PIN#	Symbol	COM1 [RS232]	COM3 [RS232]
1	Not used		
2	RxD	Received Data	
3	TxD	Transmitted Data	
4	Not used		
5	GND	GND	
6	Not used		
7	RTS	Ready to send output	Transmitted Data
8	CTS	Clear to send input	Received Data
9	Not used		

9 Pin, Female, D-sub COM1 / COM3 [RS485]/ CAN Bus

PIN#	Symbol	COM1 [RS485]2w	COM1 [RS485]4w	COM3 [RS485]	CAN Bus
1	Rx-	Data-	Rx-		
2	Rx+	Data+	Rx+		
3	Tx-		Tx-		
4	Tx+		Tx+		
5	GND	GND (Isolation)			
6	Data-			Data-	
7	CAN_L				CAN_L
8	CAN_H				CAN_HH
9	Data+			Data+	



Wachendorff Prozesstechnik GmbH & Co. KG
Industriestrasse 7 • 65366 Geisenheim
Germany

Phone: +49 (0) 67 22 / 99 65 - 20
E-Mail: wp@wachendorff.de
www.wachendorff-prozesstechnik.de

