

Topcon ID1

ISOBUS 7" Touchscreen Display



Compatible with many agricultural machines, the Topcon ID1 console provides reliable interactive touchscreen experience in an economical yet durable form. Integrated independently or synergistically with Topcon ISOBUS solutions, the ID1 is designed modular for the variable needs of commercial agriculture.

- » High quality 7" color touchscreen
- » High durability (IP66)
- » Topcon ISOBUS Software (Horizon ISO)
- » Modular design (Standalone or part of Topcon ISOBUS solutions)

Display

Type	TFT Color Graphic LCD with LED backlight
Size	7" (152.4 mm (W) x 91.44 mm (H))
Resolution	800 x 480 px (WQVGA), 15:9
Colors	16.7 Mio.
Brightness	typ. 800 cd/m ²
Contrast Ratio	typ. 700:1

Input Devices

Touch	Capacitive Touch
Indicators and Sensors	Light sensor 1 Multicolor LED

Electronics

CPU	Freescale I.MX6®, Dual, 800 MHz
Mass storage	4 GByte (minus space for OS & application)
RAM	1 GByte
RTC	Buffered by gold cap Buffered for 2 weeks at Tambien Deviation max. 1 s/day
Speaker	Up to 90 dB @ 10 cm distance (max. @ ~8 kHz)
Audio	1 x Audio output (left, right, GND) AC97 compatible Output power: approx. 50 mW
Silent Wake-Input	Input which can be used for Silent-Wake-On of the OPUS to reduce visible boot-time Active on positive edge
Power supply	System supplied through terminal 30 (battery +, see pinout) and 31 (battery -, see pinout). Terminal 15 (ignition) to be used to switch on/off. Operating voltage range: 8 - 36 V DC. Short circuit protection. Over-voltage protection up to 48 V for max. 5 min. Inverse polarity protection up to -48 V DC for max. 5 min.

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Interfaces

CAN Bus	2 x CAN-Interface according to ISO 11898, CAN-specification 2.0 B active, up to 1 Mbit/s (default 250 Kbit/s, possible 10 Kbit/s, 20 Kbit/s, 50 Kbit/s, 83.3 Kbit/s, 111.1 Kbit/s, 250 Kbit/s, 500 Kbit/s, 800 Kbit/s, 1 Mbit/s)
RS232	1 x RS232-Interface Type: EIA232 (only RXD, TXD, GND) Speed: max. 115.200 Kbps
USB	Host 2.0 Side connector: 1 x Type A High speed Guaranteed 900 mA @ 5 V Back connector: 1 x Type A High speed Guaranteed 900 mA @ 5 V
Wireless-Interface	Via additional USB connected WiFi device
Ethernet-Interface	1 x 10/100 Mbit/s Base T

Connectors

Main	Typo-AMP 1437288-6 Mating connector (customer) Typo-AMP 3-1437290-7 Mating crimp contact (customer) Typo-AMP 3-1447221-4
Ethernet-Connector	M12 round connector, female, 4-pole, D-coded acc. to EN 61076-2-101
Video-Connector	M12 round connector female, 5-pole, B-coded acc. to EN 61076-2-101

Software

Operating System	Linux Kernel 5.43.53 or higher
Application Programming	Horizon ISO

Testing and Verification

CE-Compliance	EU Directive 2014/30/EU (EMC) according to <ul style="list-style-type: none">- EN 13766-1: Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions- EN ISO 14982: Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria- EN 50498: Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles.- EN 61000-6-2: Electromagnetic compatibility (EMC). Generic standards - Immunity for industrial environment- EN 61000-6-4: Electromagnetic compatibility (EMC). Generic standards - Emission standard for industrial environment.
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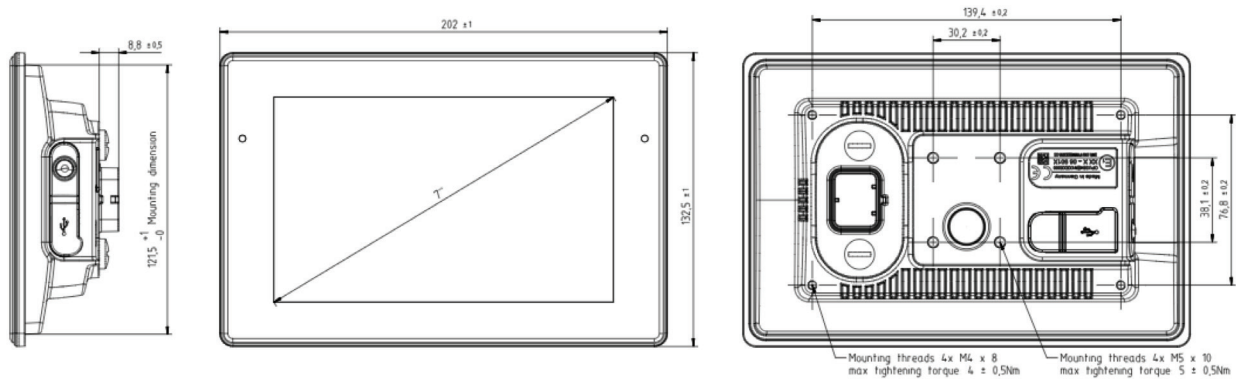
Testing and Verification

Inverse Polarity resistance	5 min @ -48 V (no defect)
Over voltage resistance	5 min @ +48 V (no defect)

Environmental

E1 - Type approval	0.05 m/sec
Protection Level (IP Code)	IP 66 according to ISO 20653: Road Vehicles - Degrees of protection (IP-Code) - Protection of electrical equipment against foreign objects, water and access

Dimensions



Note: dimensions are in millimeters (mm)