

# Topcon XC1 Console

## Economical 7" Touchscreen Display



Compatible with many agricultural machines, the Topcon XC1 console provides a reliable interface in an economical yet durable form. This steering display features a 7" color touchscreen, high durability design for open-cab environments, and easy-to-use Topcon software with an optional ISOBUS unlock. Integrated with Topcon Manual Guidance and Value Line Steering solutions, the XC1 is ready for the variable needs of commercial agriculture.

- » Clear 7" color touchscreen
- » Proven, easy-to-use software with optional ISOBUS implement control
- » High durability (IP66)

### Display

Type	TFT Color Graphic LCD with LED backlight
Size	7" (152.4mm (W) x 91.44mm (H))
Resolution	800 x 480px (WQVGA), 15:9
Colors	16.7 Mio.
Brightness	typ. 800cd/m2
Contrast Ratio	typ. 700:1

### Input Devices

Touch	Capacitive Touch
Indicators and Sensors	Light sensor 1 Multicolor LED

### Electronics

CPU	Freescall I.MX6®, Dual, 800MHz
Mass storage	4GByte (minus space for OS & application)
RAM	1GByte
RTC	Buffered by gold cap Buffered for 2 weeks at Tambien Deviation max. 1s/day
Speaker	Up to 90dB @ 10cm distance (max. @ ~8kHz)
Audio	1 x Audio output (left, right, GND) AC97 compatible Output power: approx. 50mW
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 - 36V DC. Short circuit protection. Over-voltage protection up to 48V for max. 5min. Inverse polarity protection up to -48V DC for max. 5min.

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### Interfaces

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

### 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

### Software

Operating System	Linux Kernel 5.43.53 or higher
Application Programming	Horizon Lite

### Testing and Verification

CE-Compliance	<p>EU Directive 2014/30/EU (EMC) according to</p> <ul style="list-style-type: none"><li>- <b>EN 13766-1:</b> 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</li><li>- <b>EN ISO 14982:</b> Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria</li><li>- <b>EN 50498:</b> Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles.</li><li>- <b>EN 61000-6-2:</b> Electromagnetic compatibility (EMC). Generic standards - Immunity for industrial environment</li><li>- <b>EN 61000-6-4:</b> Electromagnetic compatibility (EMC). Generic standards - Emission standard for industrial environment.</li></ul>
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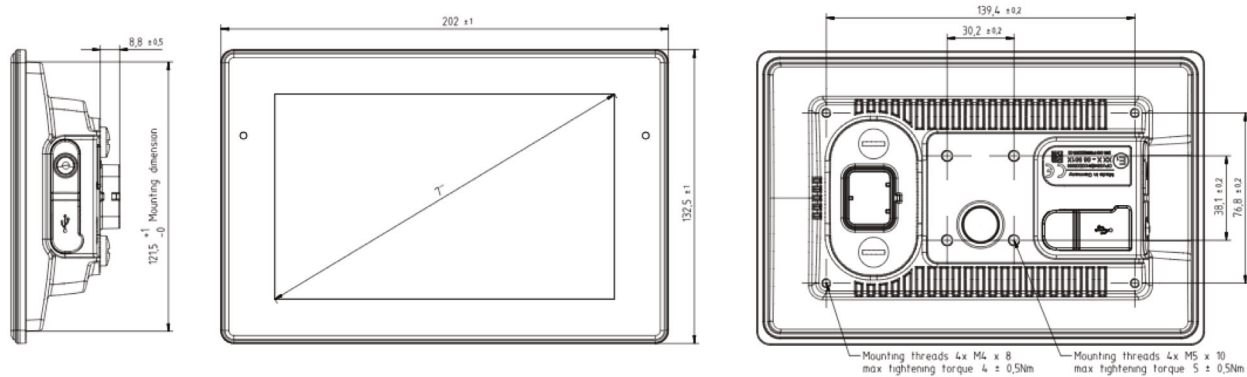
### Testing and Verification

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

### Environmental

E1 - Type approval	0.05m/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)