

XD Console



7" Customizable In-Cab Display

Designed with the future in mind, the Topcon XD touchscreen console, including revamped proprietary (Horizon) software and Topcon Agriculture Platform (TAP) integration, allows full-feature customization.

Customers can optimize investment by paying only for capabilities they need.

Off-the-shelf features include Guidelines, Tasks, ISO-UT, and TAP Market. All additional Horizon features are easily accessible and unlockable utilizing TAP via the console or personal device.

Coupled with Topcon receivers, steering control, and correction services; the new level of customization allows flexible guidance solutions, priced right. Plus, with the complete Horizon feature-set including compatibility to the full-range of Topcon sensors and application control technology, the XD is ready for even the most progressive operations.

| PHYSICAL | | | | | | | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Housing | Front cover: PC/ABS, colored black with rubber frame Back cover: Aluminum die cast, colored black | | | | | | |
| Dimensions (I x w) | 5.7 x 8.8 in. / 144.4 x 223.7 mm | | | | | | |
| Mounting | Landscape or p | oortrait / Standalone | | | | | |
| DISPLAY | | | | | | | |
| Туре | TFT Color Graphic LCD with LED backlight | | | | | | |
| Size (w x h) | 7 in. / 152 x 91 mm | | | | | | |
| Resolution | 800 x 480 px (WVGA), 15:9 | | | | | | |
| Colors | 262k | | | | | | |
| Brightness | 400 cd/m ² | | | | | | |
| Contrast ratio | 500:1 | | | | | | |
| INPUT DEVICES | 3 | | | | | | |
| Touch | PCT | | | | | | |
| Indicators and sensors | Light sensor1 Multicolor-LED | | - 3 Status-LED's | | | | |
| IP rating | IP65 | | | | | | |
| ELECTRONICS | | | | | | | |
| Processor platform | CPU: NXP I.MX6®, dual, 800MHz RTC: Buffered by gold cap | | Mass storage: 4GB RAM: 1024MB | | | | |
| Speaker | 80 dB @ 1kHz in 1 m distance | | | | | | |
| Power supply | System supplied through terminal 30 (battery) and 31 (battery) Terminal 15 (ignition) to be used to switch on/off Operating voltage range: 9 – 36 V DC Short circuit operation Over-voltage protection up to 48 V for max. 5 minutes Inverse polarity protection up to -48 V DC for max. 5 minutes | | | | | | |
| Current consumption | Power mode | Current at 13,5 VDC | | | | | |
| (without external load), max. | On Low-power Sleep Off | ≤ 1000 mA Depending on config ≤ 100 mA ≤ 2 mA | ≤ 600 mA ≤ 65 mA ≤ 2 mA | | | | |
| INTERFACES | | | | | | | |
| CAN Bus | 2 x CAN-Interfaces ISO 11898, CAN-specification, 2.0 B active Up to 1MB (default 250KB, 500KB, 750KB and 1MB) | | | | | | |
| RS-232 | 1 x RS232-Interface Type: EIA232 (only RxD, TxD, GND) | | Speed: Max. 115 Kbps | | | | |
| USB | Main connector: 1 x High speed | | Host 2.0 | | | | |
| Inputs | 4 configurable analog/digital inputs Over-voltage protection: Up to 36 VDC Short circuit protection: Up to 36 VDC Frequency: Max. signal frequency 50 Hz | | Input impedance: > 3k Ohm Resolution: 10 bit (1024 digits) Voltage range: 0-12 V | | | | |
| Outputs | 2 digital outputs Short circuit protection: Up to 36 V Imax 300 mA open drain | | RDS,on < 1 Ohm RDS,off > 100 kOhm | | | | |
| Video-Interface | 1 analog video inputs 1 Vss Ampacity 500 mA @ 12V DC | | Camera control output (open drain) for special functionality (mirror, shutter, heating, etc.), 300mA @ 12V DC | | | | |
| Ethernet-Interface | 1 x 10/100MB | | | | | | |
| Audio | · | (left, right, GND) approx. 50 mW | AC97 compatible | | | | |



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| CONNECTORS | | | | | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Main | Tyco-AMP 1437288-6 Mating crimp contact (customer) | Mating connector (customer) Tyco-AMP 3-1437290-7 Tyco-AMP 3-1447221-4 | | | |
| Video | M12 round connector, female, 5-pole, | , | | | |
| Ethernet | M12 round connector, female, 4-pole, | D-coded acc. to EN 61076-2-101 | | | |
| SOFTWARE | | | | | |
| Operating System | Linux Kernel 3.0.0 or higher | | | | |
| Application Programming | - Wachendorff Projector Tool | - Optional: ISO-UT | | | |
| TESTING AND VERIFICATION | | | | | |
| CE-Compliance | EU Directive 2014/30/EU (EMC) accord EN 12895: Industrial Trucks – Electro EN 13309: Construction machinery – EN ISO 14982: Agricultural and fores – Electromagnetic compatibility | magnetic compatibility Electromagnetic compatibility of machines with internal electrical power supply | | | |
| E1 – Type approval | EU Directive ECE R 10.4 (Dec 2013) | | | | |
| Protection Level | IP65K and IP66K according to ISO 20653: Road Vehicles | | | | |
| (IP Code) | - Degrees of protection (IP-Code) | - Protection of electrical equipment against foreign objects, water and access | | | |
| Electrical | 12 and 24 V - Systems according to:ISO 16750-2: Road VehiclesISO 15003: Agricultural Engineering | Environmental conditions and testing for electrical and electronic equipment Electrical loads Testing resistance to environmental conditions Electrical and electronic equipment | | | |
| Mechanical | • ISO 16750-3: Road Vehicles | Environmental conditions and testing for electrical and electronic equipment Mechanical loads, Code L | | | |
| | ISO 15003: Agricultural Engineering Mechanical Shock; Level 2 | Electrical and electronic equipmentTesting resistance to environmental conditions | | | |
| | Random Vibration: Level 2 Sinusoidal Vibration: Level 2 | | | | |
| Climate | ISO 16750-4: Road Vehicles Operating Temperature Range: Storage Temperature Range: ISO 15003: Agricultural Engineering | Environmental conditions and testing for electrical and electronic equipment Climatic Loads -30°C to 65°C -40°C to 85°C Electrical and electronic equipment | | | |
| | | - Testing resistance to environmental conditions | | | |

Complementary Products



Rooftop Receivers

AGM-1 manual guidance AGI-4 receiver/steering controller



Cloud Connectivity Devices

CL-10 and Cl-55 for automatic data upload to TAP



Steering Control

Retrofit steering solutions (AES-35 and Danfoss EHi Steering Valve)



Tilling, Seeding, Crop Care Control

Leading tilling, seeding, planting, spraying, and spreading control



Correction Services

Full range through base stations (HiPer VR and MR-2) and reference station networks (TopNET)



Crop Health Monitoring

Nutrient sensor for optimized and on-the-go application



XD Console

Pay only for what's needed. Explore all XD feature unlocks below.

| FEATURE | DESCRIPTION | XD (Customizable) |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| | Guidance | |
| Guidelines | *Basic guidance, including on-screen waylines and lightbar. | Included |
| Autosteer | *Automatic steering Included with 30 cm SBAS correction services. Access to full range of correction networks, including satellite, cellular, Wi-Fi and base station, down to 2 cm RTK. | Unlock |
| Headland Turns | Automatically generate and execute turn at end of row for seamless transition into next pass. | Unlock |
| Tramlines | Visualize and optimize waylines with respect to application machinery width. | Unlock |
| Controlled Traffic | View multiple guidance paths (up to 20) at the same time with operating waylines easily differentiated from surrounding tasks. | Unlock |
| Machine to Machine*** | *Collaborate multiple machines (up to 100) on a single task and share data in real time. Includes integrated automatic section control to prevent accidental application. | Unlock |
| XTEND | *Extend user interface of console to mobile iOS or Android device. | Unlock |
| Cameras | *Enable display for digital cameras (up to 4 AgCams). | Unlock |
| Third-party NMEA Receivers | Support for third-party NMEA and NMEA 2000 receivers to provide GNSS position information to the console. | Unlock |
| External Applications | Enable display for Topcon approved third-party software applications. | Unlock |
| | Digital Farm Management | |
| Tasks | Task management including data logging and full stack of geospatial field profiling tools. | Included |
| TAP Fields** | Easily manage subscriptions, upload and manage all farm data. Includes Market, Dashboard, Storage and Fields apps. | Included |
| TAP Pro | *Constant connectivity, enabling Automatic Sync, Fleet Management and Remote Support. | Unlock |
| Weather Station | *Aktiviert Anzeige der AirMar 150WX Wetterstation. | Unlock |
| | Monitoring, Mapping and Logging | |
| CropSpec Monitoring | *Enable display for CropSpec Crop Monitoring solution. | Unlock |
| Yield Monitoring | *Enables display for Topcon real-time yield monitoring, mapping and logging solution. | Unlock |
| | Implement and Application Control | |
| Auto Section Control | *Automatic section control for compatible application controllers. | Unlock |
| Variable Rate Control | *Variable rate control for compatible application controllers. | Unlock |
| Additional Seeder Tanks | *Adds support for seeder implements with 3 or more tanks. | Unlock |
| Additional Spreader Bins | *Adds support for spreader implements with dual belts and up to 4 bins. | Unlock |
| Additional Sprayer Tanks | *Adds support for sprayer implements with up to 4 tanks. | Unlock |
| Boom Height Control | *Enable display for Norac boom height control solution. | Unlock |
| Hypro ProStop-E | *Support for Hypro Pentair CAN controlled nozzle system to provide individual nozzle control on the boom. | Unlock |
| Water Conservation | *Enable display for access to full suite of Topcon landforming technology, including survey, design and execution. | |
| | Implement and Application Control | |
| ISO-UT | Display compatibility for ISOBUS protocol solutions. | Included |
| ISOBUS Implement Profiles | *Enables display for ISOBUS implement control and task logging, up to 2 products. | Unlock |
| Additional ISOBUS Products | *Adds support for up to 4 ISO products. | Unlock |

^{*}Additional hardware required.

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^{**}TAP Fields is only free for first year.

^{***}Future release.