

XD+ Console



12.1" 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 fullfeature customization. Customers can optimize investment by paying only for capabilities they need.

Off-the-shelf unlocked features include Guidelines, Tasks, ISO-UT, and TAP Market. All additional Horizon OS 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 provides flexible guidance solutions, priced right. Plus, with the complete Horizon OS featureset including compatibility with the fullrange of Topcon sensors and application control technology, the XD+ is ready for even the most progressive operations.

PHYSICAL					
Housing	Aluminum back-housing, plastic front-housing, black with				
Dimensions (I x w)	rubber frame 8.4 x 13 in. / 214 x 330 mm				
Mounting	Landscape or portrait / Standalone / In-dash				
DISPLAY					
Туре	TFT Color Graphic LCD with LED backlight				
Size (w x h)	12.1 in. / 261 x 163 mm				
Resolution	1280 x 800 px (WVGA), 16:10				
Colors	16.7 Million				
Brightness	1000 cd/m ²				
Contrast ratio	750:1				
INPUT DEVICES					
Touch	PCT				
Indicators and sensors	– Light sensor	– 1 Multicolor-LED	– 3 Status-LED's		
ELECTRONICS					
Processor platform	RTC: Buffered by	5 1	Mass storage: 8GB RAM: 1GB		
Speaker	80 dB @ 1kHz in 1				
Power supply	Operating voltage range: 9 – 36 V DC Protection: Short circuit protection Overvoltage resistance: 48 V for max. 5 minutes Inverse polarity protection: Up to -48 V DC for max. 5 minutes				
Current consumption (without external load), max.	Power mode On Low-power Sleep	Current at 13.5 VDC ≤ 1.8 A Depending on config ≤ 0.2 A	Current at 27 V ≤ 0.7 A ≤ 0.1 A		
	Off	≤ 2 mA	≤4 mA		
INTERFACES					
CAN Bus	2 x CAN-Interfaces ISO 11898, CAN-specification, 2.0 B active Up to 1MB (250KB, 500KB, 750KB and 1MB)				
RS-232	1 x RS232-Interface Type: EIA232 (only RxD, TxD, GND) Speed: Max. 115 Kbps				
USB Inputs	Main connector: 1 x High speed 4 configurable analog/digital inputs				
inputs	Input impedance: > 3k Ohm Resolution: 12 bit (1024 digits, 1 digit ~ 3 mV) Input range: 0-12 V or 4-20 mA, or 0-20 mA Max. protectable input voltage: 36 VDC Protection: Short circuit protection Frequency: Max. signal frequency 50 Hz				
Outputs	3 digital outputs Short circuit protectimax 300 mA oper	-	RDS on < 1 Ohm RDS off > 100 kOhm		
Video-Interface	Inputs: 3 x analog Camera supply: 12 Output: 1 x camer (open drain) for sp (mirror, shutter, he	(2 live steams) 2 VDC a control output ecial functionality	Vss : 1 V Max. current: 500 mA Ampacity 300 mA		
Ethernet-Interface	1 x 10/100MB Base				
Audio	1 x Audio output (Output power: app	left, right, GND) prox. 65 mW @ 32 Ohm			



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CONNECTORS					
Main	Tyco-AMP 3-1437290-7				
Video	M12 round connector, female, 5-pole, B-coded acc. to EN 61076-2-101				
Ethernet	M12 round connector, female, 4-pole, D-coded acc. to EN 61076-2-101				
SOFTWARE					
Operating System	Linux Kernel				
Application Programming	– OPUS Projector	- ISO-UT			
TESTING AND VERIFICATION					
CE-Compliance	EU Directive 2014/30/EU (EMC) accord • EN ISO 13766-1: Earth-moving and b – Electromagnetic compatibility (EMC) • EN ISO 14982: Agricultural and forest – Electromagnetic compatibility	uilding construction machinery) of machines with internal electrical power supply			
E1 – Type approval	EU Directive ECE R 10				
Protection Level (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 Vehicles ISO 15003: Agricultural Engineering 	 Environmental conditions and testing for electrical and electronic equipment Electrical loads Electrical and electronic equipment Testing resistance to environmental conditions 			
Mechanical	ISO 16750-3: Road VehiclesISO 15003: Agricultural Engineering	 Resting resistance to environmental contaitors Environmental conditions and testing for electrical and electronic equipment Mechanical loads, Code L Electrical and electronic equipment 			
	Mechanical Shock: Level 2 Random Vibration: Level 2 Sinusoidal Vibration: Level 2	 Testing resistance to environmental conditions 			
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 CI-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



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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
Thirdy-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	*Enable display for AirMar 150WX Weather Station.	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.	Unlock
	ISOBUS 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.

**TAP Fields is only free for first year.

***Future release.

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