

TD540 Display



10" Display Solution

The TD540 Display is the premium aftermarket or secondary display solution for the ultimate user experience in grade control applications. With its specialized combination of anti-glare, powerful backlighting and advanced optical bonding techniques the display combines at-a-glance sunlight readability with an easy to learn discoverable multi-touch interface.

Built on top of a powerful 3D graphics engine and processing platform the Android operating system means you can extend the display with additional applications that your business needs without having to upgrade your hardware or add an additional display.

Key features

- Large 10.1" sunlight readable optically bonded LCD with capacitive multi-touch interaction
- Android 11 for easy software extensibility
- Powerful octa core processor platform with dedicated graphics processor
- Secure platform for portability of grade control option keys
- Optional integrated Bluetooth and Wi-Fi for wireless connectivity
- 10Mbps and 100Mbps wired Ethernet
- Quick release RAM mounting for daily theft protection removal
- Panel mounting option for factory integration
- Front facing USB for easy FW upgrade and synchronization of design and productivity data
- Rugged design for construction, paving and mining machine environment



OS

Android 11

Platform

Processor	NXP iMX8 Qmax 1.6GHz Octa core Max CPU with GPU
Internal memory	8GB RAM
Internal storage	32GB non-volatile Flash memory

I/O

- 1 Ethernet 10MBps (4-wire)
- 1 Ethernet 100MBps (2-wire)
- 1 Front-facing USB 3.0 Type A Host port
- 1 2.4 GHz and 5GHz WLAN 802.11b/g/n/ac (optional)
- 1 Bluetooth 5.0 LE and DLE (optional)
- 1 NFC
- Power button and brightness + / - buttons

Audio

2 Integrated speakers (85db @ 1m)

Display specifications

Resolution	1280 x 800
Contrast ratio	800
Backlight	900 cd/m ²
Treatments	Anti-glare, anti-fingerprint, optical bonding
Viewing angle	+/-85deg
Touch panel	P-cap multi-touch with gloved hand support and rain false touch rejection
Glass hardness	7H



Physical specifications

Size	Length: 293 mm (11.54")
	Width: 185 mm (7.28")
	Depth: 50 mm (1.97")
Weight	2.1 kg (4.63 lb)
Housing	Cast aluminium and Plastic, with tactile hand hold features and integrated drop bumpers

Environmental specifications

Temperature	Operating: -20°C to +70°C (-4°F to +158°F)
	Storage: -40°C to +85°C (-40°F to +185°F)
Humidity	90% relative humidity
Sealing	IP66 for dust, rain and pressure wash
Vibration	4.4 G-rms for construction machine cab environments
Drop resistance	1.0 m on concrete

Electrical specifications

Electrical input voltage	9 Vdc to 32 Vdc unconditioned
Supply power	18 W (typical)
Reverse voltage protection	Yes
Overtoltage protected	Yes
Load-dump protected	Yes
Short circuit protected	Yes

Wireless connectivity

Wi-Fi	802.11 ac/a/b/g/n/ac
	2.4GHz (2400 - 2483.5MHz) -+18.5dBm
	5GHz (5150 - 2483.5MHz) -+15dBm
Bluetooth	Bluetooth 5.0 with LE Data Length Extension and LE Secure Connections
NFC	Reader/Writer, Peer-to-Peer

Regulatory

Radio and electromagnetic CE, RED, FCC, IC, RCM, Japan, ICES-003

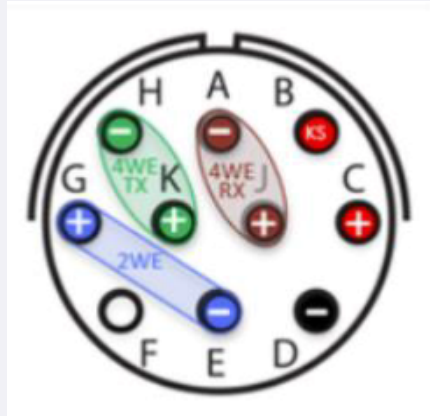
Environmental

WEEE, REACH, ROHS, China RoHS and Prop 65

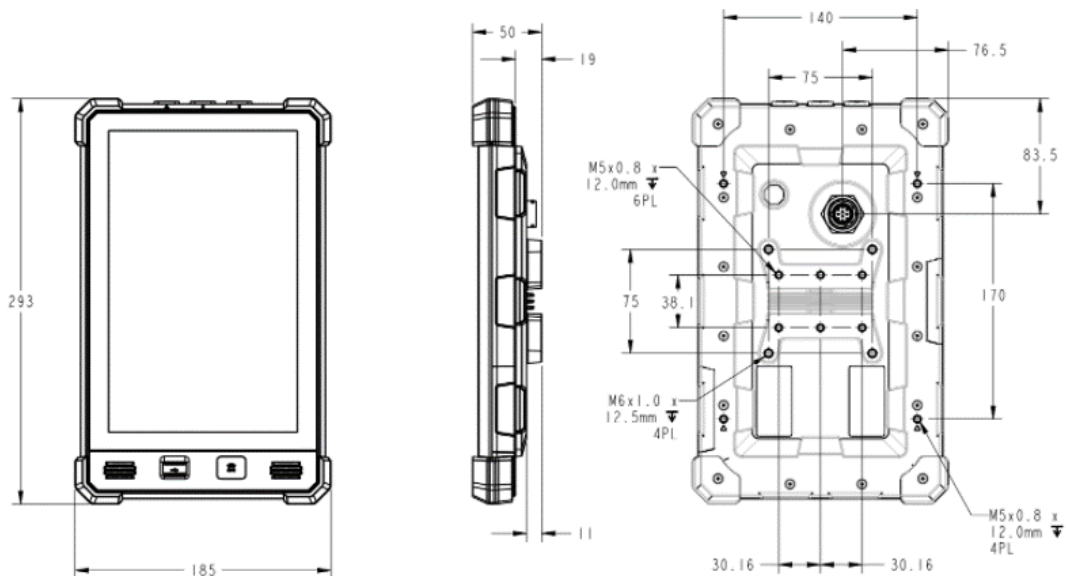
Compliant with EMC Directive 2014/30/EU and RED 2014/53/EU

Primary I/O connector styles

Pin	Signal	Description
A	ETH_R-	
B	KEY_SW	
C	BATT+	
D	GND	
E	2WE-	
F	NC	
G	2WE+	
H	ETH_T-	
J	ETH_R+	
K	ETH_T+	



Dimensions (mm)



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FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Canada Statement

This device complies with ISED's licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20cm entre le radiateur et votre corps.