

TREK-303



7" Smart Vehicle Display

Features

- 7" display with touchscreen supports both 480 x 234 and 800 x 480 resolutions for different LCD panels
- -30 to 70° C wide range temperature support
- Five user-defined function keys, 2 watt speaker, and USB host.
- Option to support auto-adjust light sensor
- One cable connects with TREK-5xx series
- Wake up/power button on back for easy to wake up/power up
- CE/FCC/E13 certified









Introduction

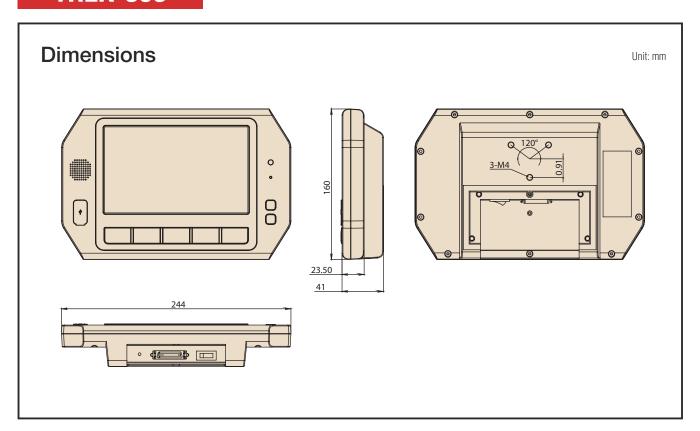
The TREK-303 is a vehicle display system for Mobile Resource Management (MRM) applications in trucks, buses and taxis. The TREK-303 touch panel is the perfect size for tight spaces; ideal for fleet management and dispatch applications. It also meets requirements for automotive grade working temperatures (-30 ~ 70° C). TREK-303 provides excellent display capabilities, featuring light-weight housing, compatible with RAM mounting solutions that customers can easily install. TREK-303 supports two display resolutions. The low resolution panel is design compatible with the TREK-510 vehicle computing system; the high resolution panel is design compatible with TREK-550 computing system. TREK-303 is designed with drivers in mind; when the system requires powering up or waking up, it can be easily controlled from the button located in back; and for night driving, the panel has an auto detecting light sensor to automatically adjust brightness. TREK-303 is a smart display designed especially for truck, bus, and taxi drivers.

Specifications

Models					
Resolution (pixel)		Models	TREK-303R-LA0E	TREK-303R-HA0E	
LVDS interface			paired with TREK-510		
LCD Pixel Pitch (Brightness (cd/m²) 4.50 (kpical) with touchscreen 4.00 (kpical) with touchscreen View Angle (R/L/B/T) 7.0° / 70° / 65° / 50° 400 (kpical) with touchscreen View Angle (R/L/B/T) 7.0° / 70° / 65° / 50° 70° / 70° / 60° / 60° Contrast Ratio 20 500 Lamp Life (hrs) 20,000 (hrs) 50,000 (hrs) Lamp Type LED Touchscreen LED Speaker 2 watts Hotkey Supports 5 hotkeys (user defined) Brightness Control Manually controlled by button (default), Light sensing (optional) USB Host x 1 Power /Wake Up Switch Yes Reset Button Yes Power Power Consumption -12 W (Max.), -4 W (normal) -12 W (Max.), -9 W (normal) Mechanical Mounting Design compatible with RAM mount Mechanical Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C		Resolution (pixel)			
Brightness (cd/m²) 450 (typical) with touchscreen 400 (typical) with touchscreen		LVDS interface	supports 18-bit		
Note Name Name	LCD	Pixel Pitch	0.321 (W) x 0.370 (H)	0.2168 (H) x 0.2168 (V)	
Contrast Ratio 200 500 Lamp Life (hrs) 20,000 (hrs) 50,000 (hrs) Lamp Type		Brightness (cd/m²)	450 (typical) with touchscreen	400 (typical) with touchscreen	
Lamp Life (hrs) 20,000 (hrs) 50,000 (hrs) Lamp Type LED Touchscreen Touchscreen 4-wire resistive Front plane Speaker 2 watts Hotkey Supports 5 hotkeys (user defined) Brightness Control Manually controlled by button (default), Light sensing (optional) USB Host x 1 Power Wake Up Switch Yes Reset Button Yes Power Consumption -12 V + 5% Power Consumption -12 W (Max.), ~4 W (normal) -12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Mechanical PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		View Angle (R/L/B/T)	70° / 70° / 65° / 50°	70° / 70° / 60° / 60°	
Lamp Type		Contrast Ratio	200	500	
Touchscreen Touchscreen 4-wire resistive Front plane Speaker 2 watts Hotkey Supports 5 hotkeys (user defined) Brightness Control Manually controlled by button (default), Light sensing (optional) USB Host x 1 Power Wake Up Switch Yes Reset Button Yes Power Consumption 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Lamp Life (hrs)	20,000 (hrs)	50,000 (hrs)	
Speaker 2 watts Hotkey Supports 5 hotkeys (user defined) Brightness Control Manually controlled by button (default), Light sensing (optional) USB Host x 1 Power /Wake Up Switch Yes Reset Button Yes Power Consumption 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Metrial PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Lamp Type	Li	ED	
Hotkey Supports 5 hotkeys (user defined) Brightness Control Manually controlled by button (default), Light sensing (optional) USB Host x 1 Power /Wake Up Switch Yes Reset Button Yes Power DC Input 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mounting Design compatible with RAM mount Methanical PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2	Touchscreen	Touchscreen	4-wire resistive		
Brightness Control Manually controlled by button (default), Light sensing (optional) Back plane Power /Wake Up Switch Reset Button Yes Power DC Input 12 V +- 5% 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Metrial PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2	Front plane	Speaker	2 watts		
Brightness Control Wahrually controlled by button (default), Light sensing (optional) USB Host X 1		Hotkey	Supports 5 hotkeys (user defined)		
Power /Wake Up Switch Yes Reset Button Yes Power DC Input 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Brightness Control	Manually controlled by button (default), Light sensing (optional)		
Back plane Reset Button Yes Power DC Input 12 V +- 5% Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		USB Host	x 1		
Power DC Input 12 V +- 5%	Back plane	Power /Wake Up Switch	Υ	'es	
Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal) Mechanical Mounting Design compatible with RAM mount Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to +70° C Storage Temperature -40 to +80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Reset Button	Υ	'es	
Mounting Design compatible with RAM mount Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm	D	DC Input	12 V +- 5%		
Mechanical Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2	Power	Power Consumption	~12 W (Max.), ~4 W (normal)	~12 W (Max.), ~9 W (normal)	
Mechanical Weight 1 kg Dimensions 244 x 160 x 41 mm Operating Temperature -30 to + 70° C Storage Temperature -40 to + 80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2	Mechanical	Mounting	Design compatible with RAM mount		
Weight 1 kg		Material	PC		
Operating Temperature		Weight	1 kg		
Environment Storage Temperature -40 to +80° C Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Dimensions	244 x 160 x 41 mm		
Vibration MIL-STD-810G, SAE J1455 4.9.4.2	Environment	Operating Temperature	-30 to + 70° C		
Vibration MIL-STD-810G, SAE J1455 4.9.4.2		Storage Temperature	-40 to +80° C		
IP Rating IP 43 (whole system), IP 54 (without I/O)		Vibration	MIL-STD-810G, SAE J1455 4.9.4.2		
		IP Rating	IP 43 (whole system), IP 54 (without I/O)		



TREK-303



Fully Integrated I/O



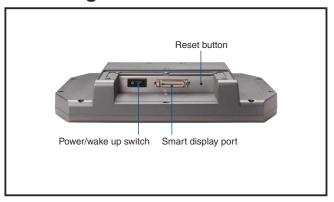
A. USB Host B. 5 programmable hotkeys C. D. Brightness control E. Power LED F. Light sensor G. Speaker

Note: Backlight off: Press ${\bf C}$ button to the lowest level

Ordering Information

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Part Number	Description
TREK-303R-LA0E	7" vehicle display system, 480 x 234 resolution, with 4 wire resistive touchscreen, 2-watt speaker
TREK-303R-HA0E	7" vehicle display system, 800 x 480 resolution, with 4wire resistive touchscreen, 2-watt speaker
RAM-MOUNT-02	RAM mount with 1.5" ball, VESA mount base
1700018342	2-meter cable(paired with TREK-5XX)

Mounting Kits



Packing List

Description	Part Number	Quantity
TREK-303R	-	1
RAM mount screw	1930001722	3

