

TREK-530

Compact RISC-Based In-Vehicle Computing Box for Logistics and Fleet Management



Features

- Qualcomm® Snapdragon™ 212 quad-core ARM® Cortex™-A7 SoC with Android 6.0 Marshmallow
- Built-in WLAN, Bluetooth, and GNSS (including BeiDou) modules with external antenna via FAKRA connector
- Modularized design with two extension slots for optional expansion (such as an LTE 4G module or battery) according to application requirements
- Compatible with 12/24V vehicle power
- Multiple isolated DI/O; DI supports dry/wet contact and vehicle speed sensor inputs for measuring distance
- Compliant with MIL-STD-810G and 5M3 standards for shock/vibration tolerance
- Equipped with Advantech's industrial-grade Android Remote General Utilities System (ARGUS) OS for remote management

Introduction

TREK-530 is a compact RISC-based in-vehicle computing box equipped with a Qualcomm® Snapdragon™ 212 quad-core ARM® Cortex™-A7 SoC, isolated DI/O, and two extension slots for optional expansion. Built-in WLAN, Bluetooth, and GNSS modules offer enhanced connectivity, while periodic, digital input, and WWAN suspend/resume functionality supports remote monitoring, making TREK-530 ideal for logistics and fleet management. Moreover, the system's wide operating temperature range (-20 ~ 65 °C), support for 12/24V vehicle power, and compliance with MIL-STD-810G and 5M3 shock/vibration standards ensures TREK-530 can withstand operation in harsh environments.

Specifications

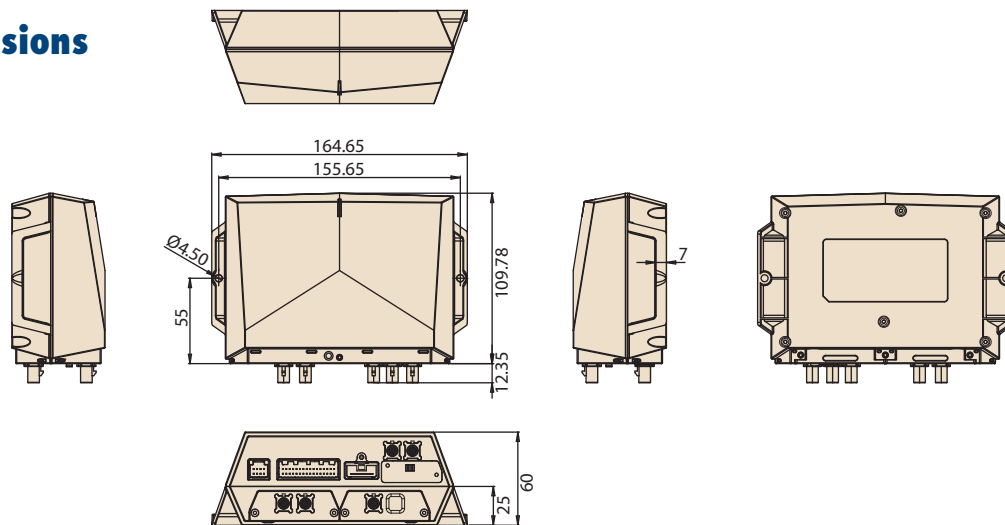
Core	Processor	Qualcomm® Snapdragon™ 212 APQ8009 quad-core ARM® Cortex™-A7 (1.3 GHz) SoC		
	Memory	2 GB		
	Operating System	Android 6.0 Marshmallow		
Storage	eMCP	16 GB		
	SD Card	1 x Externally accessible MicroSD (push-push type) with cover		
Sensor	G-Sensor	Triple-axis accelerometer (±2g/4g/8g)		
I/O	Standard I/O	1 x Micro USB OTG (Mini USB) with cover (for debugging) 1 x MicroSD slot with cover		
	Generic I/O (High-Density Connector)	1 x Mic-In, 1 x Line-Out 4 x Isolated DI (dry/wet contact) 2 x Isolated DO (open-collector output with relay driver) 1 x CAN bus (supports raw CAN, J1939, OBD-II/ISO 15765; firmware configurable) 1 x J1708 (J1587) 1 x USB 2.0 Host 1 x 4-wire RS-232 1 x 4-wire RS-232/RS-485 (software configurable)		
		LAN	1 x LAN 10/100	
		LED Indicators	1 x Power	
		Buttons	1 x Reset button with cover	
		Wireless Communication	WLAN/Bluetooth	IEEE 802.11 a/b/g/n dual band (2.4/5 GHz) and Bluetooth V4.1 Class 1 (with external antenna via FAKRA connector)
		GNSS	Sensitivity	GPS, GLONASS, and AGPS (BeiDou upon request) support (with external antenna via FAKRA connector)
	System Power	Input Voltage	Supports 12/24V vehicle power (9 ~ 32V DC input) Power on/off management (e.g., programmable ignition on/off delay) RTC wake-up events Power system protection System monitoring and diagnostics (e.g., programmable vehicle battery protection with low voltage disconnect)	
Intelligent Vehicle Power Management				
Extension Module	WWAN	Sierra Wireless MC7304 via extension module (EU) ▪ LTE: B1, B3, B7, B8, B20 Sierra Wireless MC7354 via extension module (US) ▪ LTE: B2, B4, B5, B13, B17, B25 (external antenna via FAKRA connector)		
	Backup Battery Pack	3.6V, 2100mAh. Supports up to 30 minutes operation under full load/2 hrs operation with low power consumption. Charging time approximately 3 hrs.		
Mechanical	Mount Options	2 x M4 screw holes		
	Dimensions (W x D x H)	164.65 x 109.78 x 60 mm (6.48 x 4.32 x 2.36 in)		
	Weight	410g (0.903 lb)		

Specifications Cont.

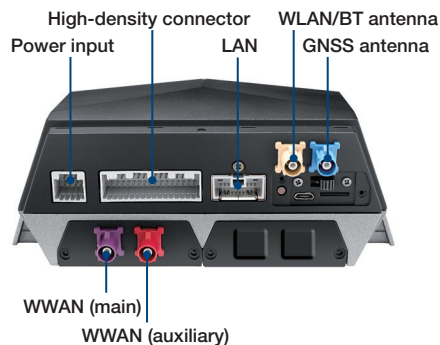
Environment	Operating Temperature	-20 ~ 65 °C (-4 ~ 149 °F), without backup battery
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	IP Rating	IP54 for I/O cover
	Vibration/Shock	MIL-STD-810G, EN60721-3 (5M3)
	Vehicle Regulations	E-mark (E13) (12/24 V system), ISO 7637-2, SAE J1455
	Safety	UL/cUL, CB
	Certifications	CE, FCC, CCC, PTCRB, verizon

Dimensions

Unit: mm



Modularized I/O



Ordering Information

Part Number	CPU	Memory	Storage	Configuration					
				Wi-Fi	BT	GNSS	4G	OS	
TREK-530-GWBADA20	Qualcomm APQ8009	2 GB	16 GB	Yes	Yes	Yes	-	Android 6.0	
TREK-530-LWBADA20	Qualcomm APQ8009	2 GB	16 GB	Yes	Yes	Yes	LTE-EU	Android 6.0	
TREK-530-LWBADB20	Qualcomm APQ8009	2 GB	16 GB	Yes	Yes	Yes	LTE-US	Android 6.0	

Packing List

- 1 x vehicle power cable
- 1 x LAN adaptor cable

Optional Accessories

Part Number	Description
1700027666-01	Power cable for testing
1700027992-01	High-density cable
1750008764-01	WWAN antenna
1750008765-01	WWAN+GPS antenna
1750008763-01	Wi-Fi+BT antenna
TREK-530-BAT000	Backup battery, 3.6V/2100mAh/1S1P
TREK-530-IPCOVER	IP54-rated I/O cover

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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