TISWARE

HARDWARE

ADVANTECH-DLOG TREK-773

On the following pages you will find detailed manufacturer information about this product from our TISWARE hardware and software portfolio.

If you need more information, please contact us!

If you have any questions about or are interested in this or other products from our portfolio, please contact our sales team. Our colleagues are happy to help.

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Other products from the TIS GmbH portfolio

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BACKGROUND TIS GMBH

The TIS GmbH, based in Bocholt is one of the market leaders for sophisticated telematics projects. TIS stands for "Technical Information Systems". Since 1985 the company develops intelligent telematics solutions for freight forwarders, transport and logistics companies and retail chains. Currently, more than 50 employees work for TIS. The latest generation of products are the platform-independent software solutions under the brand name TISLOG Logistics & Mobility. Together with the powerful hardware of renowned partners and the in-house developed hardware accessories TISLOG builds the optimal solution for companies looking for professional telematics solutions.

More information on the TIS Gmbh and our portfolio of software, hardware and accessories on

www.tis-gmbh.com

TREK-773

7" All-in-One Mobile Data Terminal

Features

- Intel® Atom™ E3826 SOC

- Supports WES8, Win7 & ubuntu

- 7" WVGA wide-angle LCD resistive touchscreen

- Vehicle diagnostics interface with CAN (J1939, OBD-II/ISO 15765) and J1708 (J1587) protocols

- Built-in GNSS, WLAN, Bluetooth, NFC, and LTE WWAN modules

- Intelligent vehicle power management system supports ignition on/off/ delay functions, wake-up event control, and system health monitoring and diagnostics

- Wide working temperature (-30° C ~ 60° C), supports 12/24 V vehicle power (ISO 7637-2), and certified for shock and vibration tolerance (MIL-STD-810G and 5M3)

Introduction

TREK-773 is a new generation all-in-one 7" mobile data terminal. With an Intel® Atom™ E3826 SOC processor, the system provides high performance with wired connections such as Gigabit Ethernet, CAN2.0B (J1939, OBD-II/ISO 15765) and J1708 (J1587). Users can also connect to network services via LTE (backward compatible to CDMA/HSDPA), GPS, WLAN and Bluetooth options. Focused on the automotive market, TREK-773 is designed for vehicle power which is compliant with ISO7637-2 & SAE J1113, ensuring the system is stable during engine starts. The ruggedized chassis provides more capabilities not only in a wide range of temperatures (-30 ~ 60 °C), but also in harsh environments subject to shock (100G, 6ms) and vibration.
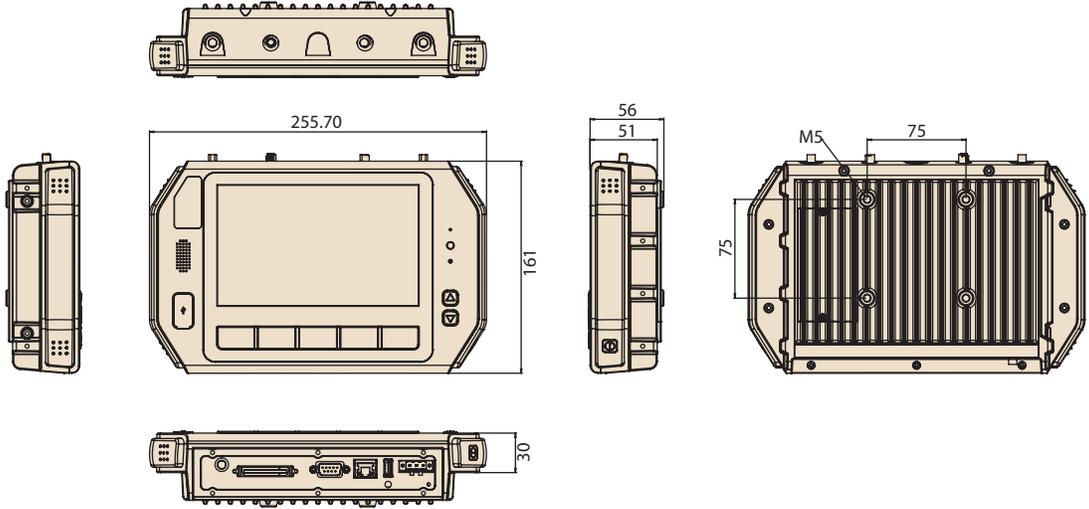
Specifications

Core	Processor	Intel Atom E3826 (Dual Core, 1.46 GHz)
	Memory	Support up to 4GB DDR3L-1066 memory module (Default configuration: 2GB)
	Graphic	Integrated 2D/3D Graphic Engine
	O.S	Windows Embedded 8 Standard (32-bit); Windows 7 by project-based ubuntu 14.04 (32-bit)
Storage	CFast	1 x external accessible CFast slot with cover, support systm boot up Default configuration: 16GB
	SD Card	1 x external accessible push-push type SD card slot with cover for extra capacity expansion
Display	Type	7" industrial grade TFT LCD
	Resolution	WVGA (800 x 480)
	Brightness (cd/m²)	500 cd/m² (typical)
	View Angle (H/V)	170/170 Full Viewing Angle
	Contrast Ratio	900
	Backlight Life (Hrs)	30K
Touchscreen	Type	4-wire analog resistive, with 3H and IK06 (drop ball 510g @300mm) supported
	Transparency	84% ±3%
Sensor	Sensor	Light sensor, G-sensor
I/O	Function Key	5 x programmable function keys with green LED
	Standard I/O Port	1 x SIM Card Slot (Left side) 1 x High Speed Full RS-232 (Bottom side) (RS232 RI pin is able to config. into 12VDC output.) 1 x USB 3.0 Host Type A (Bottom side) 1 x Giga LAN, RJ45 connector (Bottom side)
	Extended I/O Port(*2) (High Density Connector)	1 x MIC In 1 x Stereo Line In 1 x Stereo Line Out 1 x CVBS Input 1 x USB 2.0 Host 1 x High Speed Full RS-232 1 x RS-485 with auto flow control 4 x Isolated DI (Dry contact) 4 x Isolated DO (Open collector output, driving by replay) 1 x CAN Bus (Support Raw CAN, J1939, OBD-II/ISO 15765) 1 x J1708 (Support J1587) 1 x 12VDC/1.5A continuous current output (shared with standard I/O Full RS-232 DB9)(*1)

*1 The total power output is 12 VDC/1.5A, shared with Std. RS232 DB9.
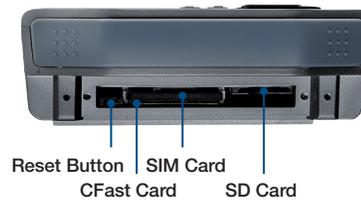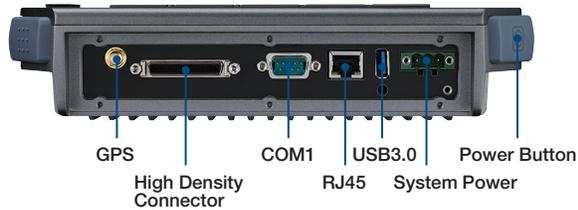*2 High density cable is an optional item for ordering.

Dimensions

Unit: mm

255.70

161

56
51

M5   75

75

30

Specifications Cont.

I/O	Power Button	1 x Power Button
	LED	1 x LED (Yellow for Power)
RF	WLAN + Bluetooth	IEEE 802.11a/b/g/n + Bluetooth (V4.0 LE, V3.0+HS, V2.1+EDR) combo module via Full Size Mini-PCIe Slot (Optional: High power WLAN for Roaming by project-based)
	WWAN	4G (LTE / HSPA+ / CDMA EV-DO Rev.A): Sierra Wireless MC73xx
	GNSS	Built-in u-blox MAX-M8 module, supports AGPS, Glonass, and BeiDou
	Antenna	1 x GPS, 2 x WWAN (LTE), 2 x WLAN/Bluetooth
	NFC	ISO/IEC 14443A, 14443B, 15693; MIFARE 1K/4K, Ultralight; NFC-IP2 protocol
Power	Voltage Input	Supports 12/24V car power system. (9 ~ 32V wide DC input, ISO 7637-2 & SAE J1113 compliant.) 48V option: 18~58V input by project-based
	Intelligent Vehicle Power Management (iVPM 2.0)	System power on/off/hibernate management (e.g. Programmable Ignition On/Off Time delay) Support Wake up Events: - Alarm (RTC) Wake up - Wake up by Call/SMS System power protection (e.g.Car Battery Low Voltage Protection) System monitoring and diagnostic
Mechanical	Dimensions (W x H x D)	255.7 x 161 x 56 mm
	Weight	2.2 kg
Environment	IP Rating	IP54 (except I/O plate). Option to support entire system IP54 with additional I/O cover
	Vibration/Shock	MIL-STD-810G, EN60721-3(5M3)
	EMC	CE, FCC, CCC
	Safety	UL/cUL, CB
	Vehicle Regulation	E-Mark (E13) for 12/24V System, SAE J1455 class C, ISO 7637-2, SAE J1113
	Railway	EN50155
	RF Regulation	CE (R&TTE), FCC ID
	Operating Temperature	-30 to 60° C
	Storage Temperature	-40° C ~ 80° C

I/O Connectors

GPS COM1 USB3.0 Power Button
High Density Connector RJ45 System Power

Reset Button SIM Card
CFast Card SD Card

Ordering Information

Part Number	Description
TREK-773R-00A0E	TREK-773R Intel BYT E3826 (2C, 1.46GHz) Barebone w/NFC
TREK-773R-LWB8A0E	TREK-773R w/LTE (WW)/GPS/WLAN/BT/NFC/CFast/WES8
TREK-773R-LWB8B0E	TREK-773R w/LTE (US)/GPS/WLAN/BT/NFC/CFast/WES8

TREK-773 CTOS KIT

Part Number	Description
9668T77300E	TREK-773 WLAN kit (802.11a/b/g/n BT combo)
9668T77301E	TREK-773 LTE module kit for USA market (MC7354)
9668T77302E	TREK-773 LTE moduel kit (MC7304)
9668T77303E	TREK-773 GPS KIT

Option items

Part Number	Description
1700020128	A Cable 1*3P-5.08+G-TEM/32V FUSE 500cm
1700019908	A Cable 1*3P-5.08+G-TEM/58V FUSE 500cm
1700019307	A Cable MDR 50P/BNC+Audio Jack*3+USB-A+D-SUB 9P
RAM-MOUNT-01	VESA RAM mount w/clamp base,1.5" ball
RAM-MOUNT-06E	VESA RAM mount w/VESA base, 1.5" ball
9668TREK35E	TREK-753R RevA0 AC/DC power kit
9668TREK37E	IP54 I/O housing cover for TREK-753