WISE-4773-S51U

Intelligent Cellular LTE OBD Data Interface – GPS, Category M1



Features

- Retrieve, translate, analyze data from vehicle onboard diagnostics bus
- J1939, J1708/J1587, OBDII (North America)
- GPS location and accuracy information
- Industry leading, proprietary OBD database/algorithms with broadest make-model-year vehicle coverage (North America) - managed by onboard intelligence
- Cellular LTE Category M1 reduced power consumption
- Plug-and-play just plug into the OBD port
- Simple command-line interface (CLI) for easy application development
- Digital, self-orientating accelerometer and audible alert hard acceleration, braking, cornering
- Tamper alert with current location if the device is removed

Overview

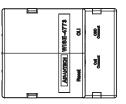
Model WISE-4773-S51U, Intelligent OBD ("On Board Diagnostics") Cellular Data Interface, collects data from GPS and your vehicle's OBD port. The self-installing device wirelessly transmits data over the G5 CAT M1 cellular network to your fleet management or analytics systems. Transport Layer Security (TLS) allows secure, cellular data connections to a configurable IP address via JSON over HTTPS and/or Cloud Management Platform for device management. All data into and out of the device is secure and encrypted.

WISE-4773-S51U plugs directly into the vehicle diagnostic port and automatically detects the vehicle bus and supported parameters using Advantech B+B SmartWorx industry leading proprietary built-in database and algorithms. It enables easy retrieval of the most commonly used parameters in telematics and fleet management applications, across the broadest range of North American vehicles, and makes that data available anywhere via the cellular network. Requires no knowledge of data bus protocols or automotive manufacture proprietary data as the onboard intelligence manages this for you.

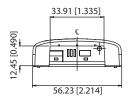
Advanced, assisted GPS technology provides location, speed, altitude and heading at each Ignition On/Off event and at a configurable interval when the ignition is on.

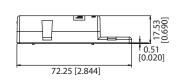
A self-leveling, 3-axis accelerometer provides both audible feedback to the driver and a report to the fleet manager if the driver has accelerated or braked too quickly, or if they are cornering at an unsafe speed. Limits can be set individually for each of the three events.

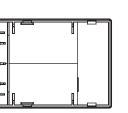
Model WISE-4773-S51U also contains a cloud management platform for firmware updates, device configuration, and security management. The cloud management platform can also be hosted locally for extra security.

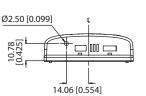












WISE-4773-S51U

Specifications		Supported Vehicle Parameters Vehicle Identification Number (V 	////
Wireless Interface • Cellular	LTE, Category M1 LTE CATM1/NBIOT bands supported (USA) 4GLTE FDD: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 4GLTE TDD: B39 AT&T	 Vehicle Speed Engine Speed Throttle Position Odometer/Distance Traveled Instantaneous Fuel Rate in Usag Accelerometer 	Monitor aggressive driving Monitor idle time and engine abuse Monitor trip distance and hours of service e per Hour Monitor hard acceleration, braking, cornering
 Transmit Power Receiver Sensitivity 	1 MB: 12.5 dBm; 54 MB: 12.25 dBm; 65 MB: 9.25 dBm 1 MB: -91 dBm; 54 MB: -75 dBm; 65 MB: -71 dBm	 Tamper notification 	Super-capacitor provides 2 to 4 minutes for shut down and last transmission of data; then one more report indicating power off and current location
AccelerometerBuzzer	Digital, 3-axis, self-orientating (acceleration, braking, cornering) Indicates hard braking, acceleration, cornering	Total FuelIgnition StatusBattery Voltage	Monitor fuel usage and guard against theft Automatic detection and idle time tracking Watch for charging system failures
 GPS/GLONASS/AGPS Configuration Internal Antennas 	Location accuracy of at least 2.5 M CEP Automatic, configurable intervals over cellular or CLI GPS, Cellular	 PTO Status Diagnostic Trouble Codes (DTCs) MIL Status 	Automatically calculate fuel tax savings)
 Data Rate Connector LEDs 	Up to 15 Mbps (1) J1962 (OBD) / ISO 15031 Type A (1) Green – indicates connection to the cellular network (1) Red – Indicates connection to the vehicle network	 Emissions Readiness Monitors Brake Switch Status Seatbelt Fastened 	Check remotely if vehicles are ready for emissions certification Available on most Ford & GM trucks/vans
Power		 Barometric Pressure 	
 Source Operating Voltage Power Consumption 	Direct power via OBD J1962 port Battery backup (and alert) Low power states 9 to 36 V DC <5 mA @ 12V DC deep sleep	 Engine Oil Temperature Engine Run Time Oil Life Remaining TPMS/Tire Pressure Driver Seatbelt 	
·	<15 mA @ 12V DC active	 Transmission Fluid Temperature Fuel Level Other parameters available on a custom b 	
Environment			
 Operating Temperature Storage Temperature 	-30 to +75 °C (-22 to +167 °F) -40 to +85 °C (-40 to +185 °F)	Additional Features Automatic low power mode senses when vehicle or engine speed is zero Proprietary vehicle detection algorithm and embedded database lets the 	
PhysicalEnclosure Dimensions	56.2 x 72.3 x 17.5 mm (2.21 x 2.85 x 0.69 in.)	same hardware work on all com Configurable parameter reportin	pliant vehicles
	5B, Industry Canada - EMC/EMI		connection is not available (8 days)
 Shock & Vibration Drop Testing 	SAE J1455, US MIL Standards 810F, 202G Drop: 1.22 m (4 ft.) Dropped unit shall return to normal operation	Supported Protocols SAE J2284/ISO 15765 Ford MSCAN 	
 Cellular Carriers 	(approvals pending)	Low Speed GMLAN	
Supported Vehicles (NATAM)		 J1708 / J1587 	

Supported Vehicles (NATAM)

- OBDII data support for 2008 and newer light-duty and medium-duty vehicles
- OBD data support for 1996 and newer heavy-duty vehicles.

Ordering Information • WISE-4773-S51U Intelligen Intelligent Cellular OBD Data Interface

J1939 (250 kbps & 500 kbps)

Accessories - Sold Separately

BB-1962FFMCBL	OBDII male to (2) OBDII female Y splitter cable	Optional for ODBII vehicles
BB-D99YT21962	Type II CAN 500 9-pin male and female to OBDII Y splitter cable	Required for J1939 vehicles with Deutsch Type 2 connector
BB-D99Y1962	Type 1 black 9-pin male and female to OBDII Y splitter cable	Required for J1939 & J1708 vehicles with Deutsch 9-pin connector