



Advanced Telematics

Telematics Control Unit

AT-TCU-5-A-120

5G Vehicle-to-Everything Telematics Control Unit



AIS 140

Connected. Protected. Limitless.



5G + V2X Ready for Global Connected Mobility

Designed for next-generation telematics applications with 5G connectivity, V2X communication capability, and satellite-ready architecture for intelligent mobility ecosystems.



Automotive Ethernet with Ultra-Low Latency

Supports 2.5Gb Automotive Ethernet for high-speed in-vehicle communication and low-latency data transfer required for advanced mobility applications.



NTN-Ready Connectivity for Remote Operations

NB-NTN Release 17 support enables communication in remote and low-network regions using satellite-enabled connectivity architecture.

AE-TCU 5G Series



Advanced
Telematics



Built for intelligent connected mobility, advanced telematics, and future-ready transportation ecosystems.



Built for global
mobility platforms



OTA-ready for
remote management



Seamless vehicle-
cloud integration



Rugged automotive-
grade reliability

Parameters	Specifications	Parameters	Specifications
Operating Voltage	9-32V	Communication Protocol	CAN 2.0,CAN UDS, BLE 4.2, WIFI 6
Nominal voltage	12/24V	Memory	1 Gbit (128 MB)PP Upgradable upto 1GB Emmc 8/32/64GB
Device Sleeping Current	<20mA	Connector	18 Pin Automotive Connector
Device Normal Current	<100mA	Firmware Update Options	OTA - HTTPS, RS232, CAN
Compliance	AIS 140	Antenna	GNSS Internal L1 + L5 V2X (External Antenna)
IP rating	IP 65	GNSS Support	IRNSS/ GPS/ BEIDOU/ Galileo/ GLONASS/QZSS
Input	1 Ignition, 2 Digital, 2 Analog	Cloud Protocol	TCP/MQTT
Output	2 Digital Output	Modem	TLS1.2
Internal Battery Charger	Yes	Connectivity	5G / CAT4 / CAT1 / 2G
In-built Battery	1100 mAH (NiMH)		
Sim	Esim/ Plastic Sim		

Empowering the Telematics Ecosystem

Complete telematics development and manufacturing, including system design, hardware engineering, validation, and high-volume production, backed by dedicated customer support.

Let's Co-Create the Future of Mobility.

Accolade Electronics Pvt. Ltd.



R&D Centre & Plant : Pune, India



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