

UTECH TRACKBOX 4G LTE

PRODUCT FEATURES AND SPECIFICATIONS



T R A C K B O X

The UTECH Trackbox LTE is a device that is used for vehicle monitoring. The device has the capability of interfacing various sensors and can communicate using Digital, analog, Modbus RTU and CANBUS protocols to connect with external devices. The external GPIO could be used for controlling remote units, allowing carrying out various tasks remotely while monitoring them. The unit has its own GPRS and GPS Module which is used to communicate with the cloud server.



UTECH TRACKBOX 4G LTE

PRODUCT FEATURES AND SPECIFICATIONS

Supply	Operating Voltage	9V – 30V
	Supply Protection	TVS protection, In built AC Surge protection, Fuse protected (1A)
	Power Consumption	3.6W (Max)
	Supply Filters	Inbuilt supply EMI filters to cancel out various interferences coming from engines
	Internal Fuses	Internal fuses for each section to safeguard integrity, allowing sections to work even if others are damaged
Communication	GSM	2G/3G/4G LTE/ NBIoT
	GSM Protection	Isolated section to ensure zero interference with other components
	CANBus	Supports SAEJ1939, j1850 Optically Isolated section – 5000Vrms 50-kV/us Typical transient immunity Bus Fault protection of -27V to 40V
	Modbus RTU	Optically Isolated section – 5000Vrms 50-kV/us Typical transient immunity Bus Fault protection of -12V to 12V
Inputs	Analog	12 x (0V – 28V inputs) 16 Bit resolution – 0.001V Resolution Configured to act as a parasite input while ensuring signal integrity. Need only 350uA to sense voltages. +/- 8kV contact discharge protection ESD Isolated section with common ground
Inputs	Digital	6 x (0 – 24V) Switching voltage 3.0V Optically Isolated inputs with common ground Configured to act as a parasite input while ensuring signal integrity. Need only 350uA to sense voltages. Can be configured to interface Temperature probes (Optional)
	Magnetic Pickup	Configured to fix 1 RPM sensor Monitor RPM up to 8000RPM
	Current Sensor	1 (0mA to 4000mA) Optional input
Outputs	Relay	1 240VAC / 2A 36V / 10A Optically isolated
	5V Output	External 5V output for aux devices Max Current output – 0.5Amp Resettable fuse protected
Auxiliary	Battery backup	1800mAH Li Ion
	Internal RTC	Yes
	IP Rating	IP 51
	Dimension	L – 15Cm, W – 9cm, H – 3.5cm *subject to change