

TELEMATICS CONTROL UNIT TESTER



SIMULATION AND TESTING

Captronic Systems' Telematics Control Unit Tester is a lab Test and Simulate system for Telematics Control Units (TCU) to ensure their proper functioning, before they are integrated into automobiles and used under real conditions.

The system is thus able to simulate a realistic connected on-road environment that creates virtual driving by taking into account different parameters such as Vehicle Signal, Cellular, GPS, Wireless and many more...

While in operation, the TCU Tester combines all these parameters in order to recreate a realistic simulation of the moving vehicle.



Vehicle Signals



Navigation



Simulation

COMMUNICATION PROTOCOL

CAN/LIN/Automotive Ethernet

WIRELESS

Wi-Fi, Bluetooth, Zigbee

NUMBER OF DIGITAL SIGNALS

64 Channel

MEASUREMENT RANGE

300V/10A

CELLULAR STANDARD

2G, 3G, 4G/LTE & 5G

A COMPLETE TEST SOLUTION

TELEMATICS CONTROL UNIT (TCU) – TESTER

› HARDWARE SPECIFICATIONS

Communication ProtocolCAN/LIN/Automotive Ethernet
 DUT Power Source20V/20A
 Navigation Simulation..... GPS/BeiDou/Galileo/GLONASS/IRNSS/QZSS
 Wireless Wi-Fi, Bluetooth, Zigbee
 Cellular Standard..... 2G, 3G, 4G/ LTE & 5G
 Display Unit covering range5 inch
 to 30 inch
 Number of Digital Signals 64 Channel
 Mass Interface Connectivity Solution..... VPC / Harting
 Other Supported Test platformV2X/e-Call

› SYSTEM FUNCTIONALITY

- UDS CAN based Functional Test
- Vehicle Signal Simulation Test
- Navigation (GPS / BeiDou / Galileo / GLONASS / IRNSS / QZSS)
- Interface Test
- Realtime Simulation for Tracking the navigation
- Vehicle Network such as LIN/Automotive Ethernet Interface test
- Wireless (Wi-Fi, Bluetooth, Zigbee) Interface Test

- Cellular (2G, 3G, 4G/LTE & 5G) Interface Test
- FOTA Testing
- eCall Test
- C-V2X Test
- Server Communication Interface test

› SOFTWARE SPECIFICATIONS

- Configurable RF Simulator
- User Configurable I/O
- Diagnostic Module
- User Configurable Test Sequence Creation
- Test Case Automation
- Custom Report Module
- Supportability of Server Interface Test

› APPLICATION

Fleet Monitoring & Control unit - R&D Validation
 TCU – Production End Of Line Testing
 Connected Vehicle Testing



AUTOMOTIVE DEVELOPMENT CENTRE

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