

LS091 Cloud edge device – Hardware datasheet

The LS091 Cloud edge device is an IoT/M2M embedded solution for mobile or static asset monitoring. The feature rich embedded sensors allow support for location services and motion detection while the extension bus allows integration into any type of sensor. Device to cloud communication is supported over cellular, WiFi, LoRaWAN or Sigfox with most industry standard protocols supported.

The wide input supply range (12V – 24Vdc) and input protection allows unit to be powered directly from a vehicle, solar or wind powered source. The embedded battery charger allows unit to be powered from an optional embedded LiPo battery if the external supply falls away.

State of the art cellular and GPS jamming detection functionality can be linked to application logic e.g. to lock doors, switch a relay etc.

The integrated CANFD interface allows monitoring and controlling of CAN connected devices, including vehicle OBD communication.

Store and forward supported by wear levelled serial flash and uSD card.

Antennas: All onboard

BLE: V4.2+EDR

Cellular: 2G, 3G, CAT1, CAT4, CAT-M1, CAT-NB2

GNSS: GPS, Galileo, GLONASS, BeiDou with embedded LNA

Security: Secure hardware element

Sensors (embedded): 2x accelerometers, Gyroscope, Temperature, CAN-FD, LIN compatible extension bus, 12/24V ignition sense

LP-WAN (868MHz): LoRaWAN, Sigfox, proprietary support

Wifi: 802.11b/g/n

Connectors:

SIM card: 3FF (Micro SIM) card

SD card: uSD (Micro SD) card

Configuration port: USB Type-C

Dimensions: 110mm x 70 mm x 6mm

Supply: 12-24Vdc input

Temperature: Battery charge 0-50C, discharge -20-60C.

Designed with certification in mind: RED, IEC60950



Lattech Systems (Pty) Ltd

Tel: +27878063880

Email: info@lattech.co.za

24 Richelieu Street, Durbanville, 7550 South Africa

PO Box 5024, Tygervalley, 7536, South Africa

www.lattech.co.za