

SYRUS LYNX 4G - CAT1

Syrus Lynx 4G is a compact IoT device that includes a GPS / GNSS receiver; specially designed for fleet management and vehicle tracking. It includes an input that can be used for detecting when doors open and close or can be used to connect an emergency button switch and an output for remote engine immobilization. Its easy installation and internal back-up battery make it the ideal solution for massive deployments. All Lynx devices are powered by a global multi-carrier SIM card.

PART NUMBER**SL-1204-13**

LTE Cat-1 4G/3G /2G

Powered by
SIM with Global
ConnectivityTime Based and
Heading Reports

Tow alarm

Driving Behavior
Monitoring

- Aggressive Curves
- Harsh Braking
- Hard Acceleration

Remote vehicle
ImmobilizationWireless Bluetooth
temperaure and
humidity sensorPROVISIONED BY:  **cloudconnect**
2G/3G/4G GLOBAL NETWORKSUPPORTED BY:  **Pegasus**
IoT Cloud

Provisioned by M2M Cloud Connect Global Connectivity

This multi-network 2G/3G/4G device is powered by a M2M Cloud Connect SIM card and can be connected to any global cellular network.

Now fleet operators can easily choose their preferred cellular network operator based on best coverage performance. This device is compact and easy to install making it ideal for massive deployments and practical for car rental and insurance companies.

Exclusively Supported by Pegasus IoT Cloud

Pegasus IoT Cloud is a software platform designed for fleet automation and mobile asset management; offering productivity tools to all fleet operators. It includes live vehicle tracking, alert monitoring, advance geofencing features, a trip management module, and comprehensive analytical dashboards.

It serves as a centralized back-end management platform with an open ecosystem for developers to build custom applications, using APIs, and multiple web services to share data with any third party platform.

TECHNICAL SPECIFICATIONS

PHYSICAL

Dimensions (mm)	106 x 43.2 x 13.5
Weight (g)	66
Waterproof	IP65

ENVIRONMENTAL

Operating Temperature	-30°C to 80°C
Storage Temperature	-40°C to 80°C
Battery Duration	Approx. 1.5 hours (unplugged)

ELECTRICAL

Operating Voltage	8V to 32V DC
Backup Battery	200mAh

CELLULAR NETWORK SPECIFICATION

Manufacturer/Model	Simcom SIM7600SA-H
Certifications	
Anatel	03061-19-01380
FCC	2AJYU-8PYA002
LTE	Cat1: LTE-FDD 2100(B1)/1800(B3)/ 2600(B7)/900(B8)/1900(B2)/1700(B4)/ 850(B5)/700APT(B28)
Operating Band	LTE-TDD 2300(B40)
Data Transmission	LTE (Mbps): 10(DL)/5(UL)
3G	
Operating Band	WCDMA: 2100(B1)/1900(B2)/850(B5)/ 900(B8)
Data Transmission	HSPA+ (Mbps): 42(DL)/5.76(UL)
2G	
Operating Band	WCDMA(Kbps): 384(DL)/384(UL)
Data Transmission	EGPRS 850/900/1800/1900 MHz GPRS/EDGE (Kbps): 236.8 (DL)/236.8 (UL)

LEDs

LED STATUS	GREEN (CELLULAR)	RED (GPS)
Fast flashing	Searching for cell network	Searching for GPS
Solid on	SIM card needs PIN code to be unlocked	GPS is fixed
Slow flashing	Registered to cell network	-
Off	-	GPS is not fixed

TEMPERATURE & HUMIDITY SENSOR*

Detect Temperature Range	-40°~ +125°
Operating temperature range	-25°~ +60°
Humidity detection range	0~100%RH
Temperature detection accuracy	±0.3°



Item # SL - TEMP

Bluetooth Low Energy temperature and humidity data logger with the latest Bluetooth 4.0 technology and Nordic N51822 chip. Can collect temperature and humidity of the surrounding environment and up to 12000 temperature and humidity logged events.

*Sold Separately

GNSS SPECIFICATION

GNSS	Qualcomm MDM9207
Sensitivity	Tracking: -161 dBm Cold start: -148 dBm
Position Accuracy (CEP)	Autonomous: <2.5m (CEP50)
TTFF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average







HARDWARE SPECIFICATION

Digital Input	1 positive trigger for ignition input
Digital Output	1 digital output, open drain 1A MAX
Configurable Input/Output	1 configurable input/output (open drain 1A MAX)
Analog Input	1 analog input
Cellular Antenna	Internal
GNSS Antenna	Internal
LED	2 (CELL and GPS)
BLE	5.2
SIM	Nano - SIM
Memory	128 MB external flash

WIRING HARNESS WITH RESETTABLE FUSE



PINOUT

PIN	COLOR	CABLE	DESCRIPTION
1	 YELLOW	INPUT	Digital Input; Open drain, 1A max
2	 GREEN	OUTPUT	Relay, Digital Output; Open drain, 1A max
3	 WHITE	IGNITION	Digital Input for Ignition Detection, positive trigger
4	 BLACK	GROUND	External DC power Ground
5	 RED	POWER	External DC power input, 8-32V
6	 GRAY	ADC	Oil sensor, Analog Input