

SynTRAC™ PLG-450

Embedded Cellular Modem

Multi Region 2G

SynTRAC™ PLG is a multi-region 2G communications platform. It features multi-GNSS satellite navigation technology, supporting in parallel GPS, GLONASS, Galileo, BeiDou, as well as QZSS. SynTRAC™ PLG utilizes a USB interface to easily connect to all types of environments, from a sensor end point to an operating system, making integration simple.

ABOUT THE SynTRAC™PLx SERIES

SynTRAC™ PLG is a member of the SynTRAC™PLx family of embedded cellular modem's which enable solutions providers, OEMs and others to harness the potential of the Internet of Things, making their products connected end devices. More than just a modem, the PLx family of devices are complete, fully featured, pre-certified edge devices, with cellular connectivity, GNSS/GPS receivers and fully-integrated antenna systems. The PLx family of products support a wide range of applications, including tracking, location data, connectivity for sensors, digital signage, instrumentation and other applications that require wireless connectivity. With an integrated IP stack, the module is designed to support a wide range of data-centric applications. The unique combination of performance, flexibility, and global coverage make the module ideally suited for M2M applications, such as a cellular modem, smart energy gateways, remote access video cameras, digital signage, telehealth and telematics. When power saving mode is enabled, it reduces energy consumption and allows battery-powered modules a longer operation time.

ORDERING INFORMATION

SynTRAC-PLG-450	Multi Region 2G	Cellular Modem/ Evaluation
-----------------	-----------------	-------------------------------



FEATURES

- Small form-factor with integrated antenna
- Multi-GNSS satellite navigation technology: GPS, GLONASS, Galileo, Beidou, QZSS.
- Connectivity via USB

BENEFITS

- RED, GFC, CE Certified
- Reduced time to market.
- Power saving algorithms
- AT commands
- FreeRTOS coming soon

MARKET APPLICATIONS

- Transport & Telematics
- Cellular modem
- Smart manufacturing & industrial IoT
- Smart buildings/cities
- Smart energy & utilities
- Retail
- Can be used as a low-cost evaluation platform.



Made in the U.S.A.

SPECIFICATIONS

SynTRAC™ PLG-450	
Regions	Multi-Region
Carriers	Vodafone
Technology	2G Global
Band Data Rates	850,900,1800,1900 MHz
GSM	Quad-band
GSM/GPRS bands	
Positioning	72-channel u-blox® UBX-M8 multi-GNSS receiver (or similar)
GNSS Chipset	GPS, Galileo, GLONASS, BeiDou (concurrent 3 out of 4); SBAS (WAAS, EGNOS, QZSS)
GNSS Systems	Hybrid Positioning and CellLocate®
Indoor Positioning	-167 dBm (manufacturer's spec)
GNSS Tracking Sensitivity	< 2.5m CEP (manufacturer's spec)
Accuracy	
Features	Via UART, FOTA for future FW versions
Firmware Update	Every 10 minutes when in motion (default); configurable from 1/sec to 1/day * Only Applicable with Tracking FW
Update Rate	-40 ° C to +85 ° C
Operating Temperature	< 80x45x12 mm3 (smaller than a credit card)
Dimensions	Atmel ICE (6 pin); Micro USB
Connectors	3 Axis 8G
Accelerometer	
Environments	Currently Available
AT Commands	Will be available with FW update
FreeRTOS	
Certifications	RED, GFC, CE, Anatel, CCC, SRRC, ICASA
SynTRAC-PLG-450	

ABOUT SYNDESY

Syndesy Technologies, Inc. provides IoT solutions to meet the needs of every customer. From initial design to final quality assurance processes, we make sure our goods are reliable and exceptional. We are proud to design and manufacture in the U.S.A.

CONTACT INFORMATION



+1 (703) 880-6300



info@syndesyttech.com



www.syndesyttech.com



13800 Coppermine Road, 1st Floor
Herndon, VA 20171