Syndesy

SynTRAC™ PLM
Embedded Cellular Modem

4G LTE Cat M1/ 4G LTE Cat NB1/ 2G

SynTRAC™ PLM is a multi-region 4G LTE Cat M1, 4G LTE Cat NB1, global 2G communications and tracking development platform. It features multi-GNSS satellite navigation technology, supporting in parallel GPS, GLONASS, Galileo, BeiDou, as well as QZSS. SynTRAC™ PLM incorporates sophisticated power saving algorithms to last longer on a single battery charge than other systems.

ABOUT THE SynTRAC™PLx SERIES

SynTRAC™ PLM 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.

FEATURES

- Small form- factor with integrated antenna
- Multi- GNSS satellite navigation technology: GPS, GLONASS, Galileo, Beidou, QZSS.
- Connectivity via USB
- Multiple firmware versions available for download from our website, upon request.

BENEFITS

- FCC & ISED Certified
- Reduced time to market.
- Power saving algorithms
- AT commands

ORDERING INFORMATION

SynTRAC-PLM-410	multi-region 4G LTE Cat M1; 4G Cat NB1	Cellular Modem/ Evaluation
SynTRAC-PLM-412	multi-region 4G LTE Cat M1; 4G Cat NB1; global 2G	Cellular Modem/ Evaluation
SynTRAC-PLM-410 TR	multi-region 4G LTE Cat M1; 4G Cat NB1	Tracking
SynTRAC-PLM-412 TR	multi-region 4G LTE Cat M1; 4G Cat NB1; global 2G	Tracking

MARKET APPLICATIONS

- Transport & Telematics
- Smart manufacturing & industrial IoT
- Smart buildings/cities
- Smart energy & utilities
- Retail

Made in the U.S.A.

SPECIFICATIONS

	SynTRAC™ PLM-410	SynTRAC™ PLM-412
Regions		
	Multi-region North America	Multi-region North America
Carriers		
	Vodafone T-Mobile AT&T Verizon	Vodafone T-Mobile AT&T
Technology		
Band Data Rates	4G LTE Cat M1/ 4G LTE Cat NB1	4G LTE Cat M1/ 4G LTE Cat NB1/ 2G
LTE Bands	2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 28	2, 3, 4, 5, 8, 12, 13, 20
LTE Bands (roaming)	1,26	26,28
EGPRS quad-band (MHz)		850, 900, 1800, 1900
Positioning		
GNSS Chipset	72-channel u-blox® UBX-M8 multi-GNSS receiver (or similar)	
GNSS Systems	GPS, Galileo, GLONASS, BeiDou (concurrent 3 out of 4); SBAS (WAAS, EGNOS, QZSS)	
Indoor Positioning	Hybrid Positioning and CellLocate® (Dependent on FW version)	
GNSS Tracking Sensitivity	-167 dBm (manufacturer's spec)	
Accuracy	< 2.5m CEP (manufacturer's spec)	
Features		
FOTA	Modem firmware update over the air	
Update Rate	Every 10 minutes when in motion (default); configurable from 1/sec to 1/day * Only Applicable with Tracking FW	
Operating Temperature	−40 ° C to +85 ° C	
Dimensions	< 80x45x12 mm3 (smaller than a credit card)	
Connectors	Atmel ICE (6 pin); Micro USB	
Accelerometer	3 Axis 8G	
Environments		
AT Commands	Currently Available	
FreeRTOS	Will be available with FW update	
Certifications		
SynTRAC PLM-410	FCC, ISED, NCC, RCM, RED,PTCRB (in process), AT&T (in process), T-Mobile (in process) , Verizon (in process)	
SynTRAC PLM-412	FCC, ISED, RED,PTCRB (in process), AT&T (in process), T-Mobile (in process)	

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

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