

GP3-V1-LTE SMART MODEM

CONTINUOUS DATA COMMUNICATION
AND AVAILABILITY FOR HAZARDOUS
LOCATIONS



Wireless Technologies USA
Witech USA Corp



BENEFITS

GP3-V1-LTE
SMART MODEM



4G LTE technology for better performance compared to 3G and GPRS modems.



RS232, RS485 and I2C connections for industrial telemetry equipment.



Ultra-low power, designed for remote operations using solar panels and batteries.



Low cost compact design for a lower investment in Scada equipment infrastructure.



Modbus RTU to Modbus TCP/IP protocol converter for serial equipment integration to Scada systems.



Easy local or remote configuration through WT Config software in Windows mode. Allows remote firmware update.



Digital and analog I/O's pulse input for remote monitoring of Scada signals: 0-5 Vdc, 4-20mA and ON/OFF. Polled via Modbus ASCII/RTU/Modbus TCP/IP.



Compatible with Wiserver's fixed public IP address assignment independent from the cellular provider.



Cry-out (call by exception) capable. Operates as a client or server configuration.



Equipped with Anti-lockup system. Continuous verification of cellular signal, detects and reestablishes any signal interruption.



Multiple simultaneous TCP connections for monitoring modem's internal I/O's and external equipment variables.



Ultra-low power mode allows to wake up in intervals. If connection is done to the Scada server, the unit can wake up RTU's, PLC's, etc; requiring very low power for the entire remote location.



TECHNICAL SPECIFICATIONS

GP3-V1-LTE
SMART MODEM

Specifications Smart Modem® GP3-V1-LTE

Hazardous environment:	UL approved for Class 1, Div. 2
Dimensions:	70 x 53.5 x 32 mm
Housing Materials:	ABS
Interface Connector:	Principal 10 pins connector
Antenna:	Female SMA Connector, 50 Ohm
Radio Frequency:	3G – UMTS B2 (1900MHz), B5 (850MHz) 4G LTE – LTE B2 (1900MHz), B4 (1700/2100MHz), B5(850MHz), B13 (700MHz – Verizon, CDMA), B17 (700MHz – AT&T)
Transmit Power:	23 dBm +- 2 dB
LEDs:	Power, RSSI, Tx/Rx data, Data, Link Status
Protocol Support:	Modbus RTU, ASCII, RTU TCP/IP Client, ENRON
Software updates:	Over the air and local firmware updates

3G/4G LTE Packet Data

Radio Module:	HL7588
Application Interface:	RS232, RS485, USB and I2C
Host Protocol:	TCP/IP(3G/4G LTE), UDP,AT, USB(CDC)
Sim Access:	External -3V, MicroSim
Data Encryption:	AES-128 (Advanced Encryption Standard) for data communication security



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Over the Air Control

Monitoring signal strength RSSI level, analog inputs, digital inputs and outputs, pulse counter, modem's configurations and parameters. Controlling digital outputs, setting registers, etc.

Power

DC Voltage:	5 – 30Vdc*
Sleep Mode:	13uA@ 12V Programmable ultra low power sleep control, wake up via timer or digital input
TX Mode:	150 mA (Maximum)
RX Mode:	100 mA (Maximum)

* Check the power supply options and voltage ranges on the quick setup guide before to connect the modem.

Analog Inputs

2 Analog Inputs:	0-5Vdc, 4-20mA
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Control and Digital Inputs/Outputs

2 Digital Outputs:	max 100mA, max 50Vdc
2 Digital Inputs:	max 10mA, 3.6Vdc

Environment

Operating Temperature:	-22°F to +140°F
Humidity:	Up to 95% non-condensing





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Power Consumption @12VDC Input (Estimated)

<i>State</i>	<i>Min</i>	<i>Typical</i>	<i>Max</i>	<i>Units</i>	<i>Min</i>	<i>Typical</i>	<i>Max</i>	<i>Units</i>
Sleep Mode:	54	72	120	uW	4.5	6	10	uA
Standby:	247.2	276	312	mW	20.6	23	26	mA
TX Mode:	276	300	960	mW	23	25	80	mA

Certifications and Environmental

RoHS Directive Compliant:	2011/65/EU
Disposing of the Product:	2012/19/EU (WEEE)
FCC ID:	N7NHL7588
FCC IC:	2417C-HL7588



Wireless Technologies USA
Witech USA Corp

20283 State road 7. suite 400
Boca Raton, FL 33498
United States of America
Phone: (561) 883 8129
www.witechusa.com