Gnosys Electronic systems

VTS-sB
Vehicle Tracking System

# Datasheet

Rev. A 6/2016

## Features

***Compatible with NI Single-Board RIO (Samtec connector)***

***5x CAN controller***

***3x RS232***

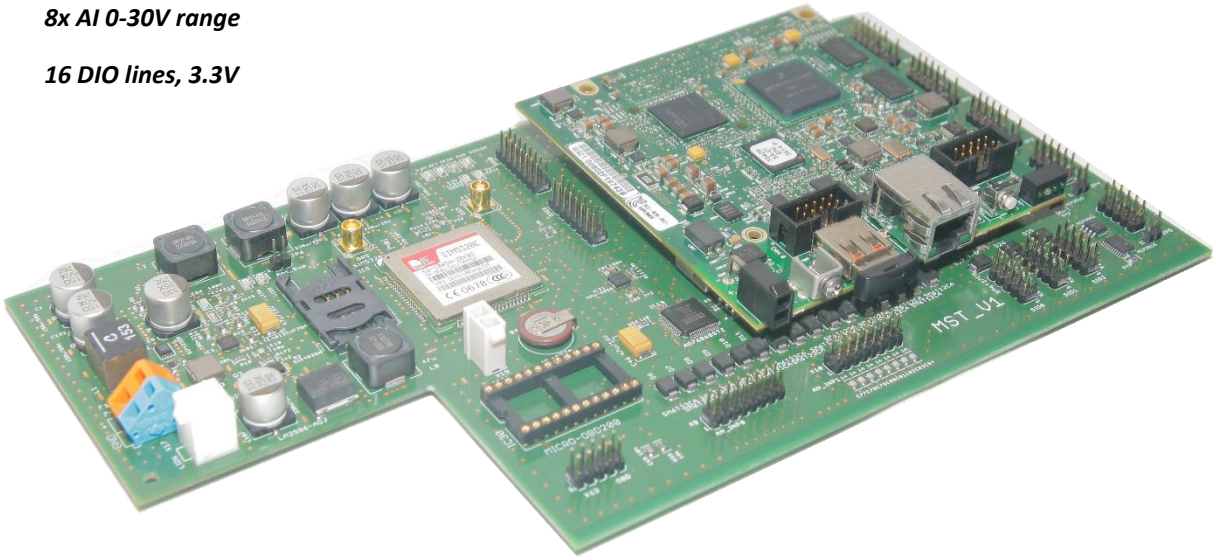
***GSM/GPRS/GPS module***

***3-axis accelerometer, 3-axis gyroscope***

***8x AI 0-10V range***

***8x AI 0-30V range***

***16 DIO lines, 3.3V***



| Peripherals | IC | Description |
|---|---|---|
| CAN-BUS | MCP2515<br>MCP2551 | 5x fully independent CAN controllers connected via FPGA, CAN 2.0B, SAE J1939, up to 1 Mbits, bus termination-jumper selector |
| RS-232 | MAX3387E | 3x RX, TX up to 250 kbps |
| GSM/GPS | SIM5320 | GSM module, dual band UMTS/HSDPA 900/2100MHz, quad band GSM/GPRS/EDGE 850/900/1800/1900 MHz, e-call ready, up to 3,6 Mbps data transfer. GPS module, A-GPS. RTC battery backup. |
| Inertial measurement unit | MPU-6050 | 3-axis accelerometer, 3-axis gyroscope |
| Analog Inputs | AD7606 | 8x AI, 16 bit, 100 kSps, 0-10V range<br>8x AI, 16 bit, 100 kSps, 0-30V range |
| Battery charger | LTC4012 | Configured for 11.2 V li-Ion battery 6600mAh |
| Power module | LTM4607 | 4.5 – 30V input, buck-boost module (5/10 A) |
| OBD-2 | microobd200 | option, socket for microobd200 module |
| Digital Input Output | FPGA | 16 DIO via RIO Mezzanine Card connector |