



Datasheet

Rev. A 6/2016

Features

Compatible with NI Single-Board RIO (Samtec connector)

5x CAN controller

3x RS232

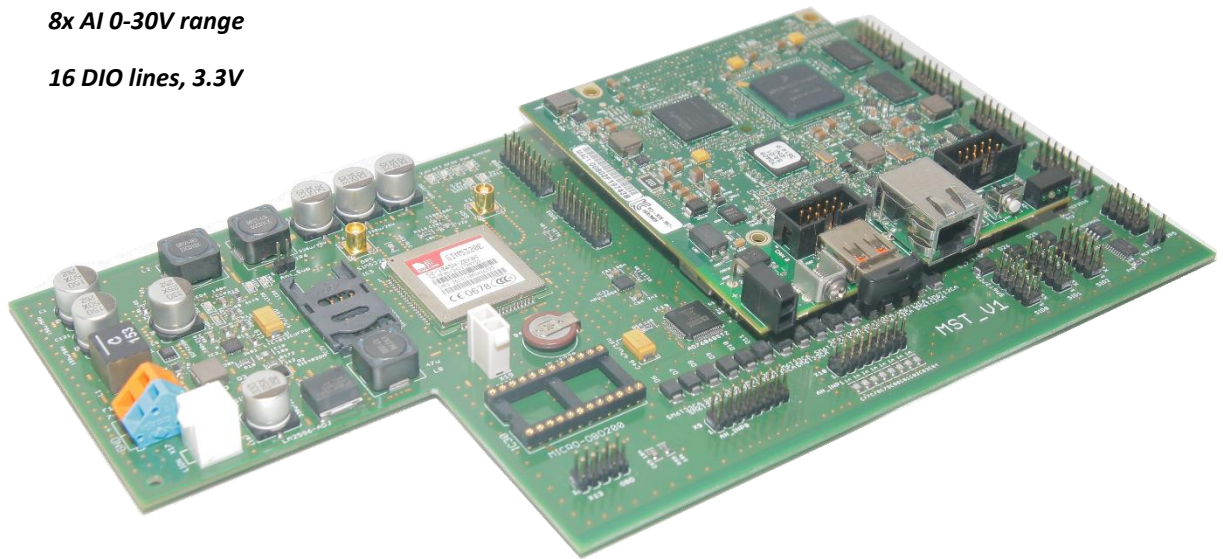
GSM/GPRS/GPS module

3-axis accelerometer, 3-axis gyroscope

8x AI 0-10V range

8x AI 0-30V range

16 DIO lines, 3.3V



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Peripherals	IC	Description
CAN-BUS	MCP2515 MCP2551	5x fully independent CAN controllers connected via FPGA, CAN 2.0B, SAE J1939, up to 1 Mbps, 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 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

