



Steelhead™ Specifications:

Power

9-36V

Processing

Processor: Freescale 56xx
Processor Speed: 264Mhz
RAM: 4MB
Flash: 4MB

Communication

2 - Bidirectional CAN Buses
1 - Ethernet Port (for use with included UI)
1 - RS-422 Port

Inputs

6 - High Frequency Analog Inputs
 Sampled @ 10khz with 12bits
8 - Low Frequency Analog Inputs
 Sampled @ 400hz with 12bits
8 - Flexible Analog inputs
 Selectable Sampling @ either 10khz or
 400hz with 12 bits
8 – Digital Inputs
 Inputs are 0-Vbatt with a 2.5V level
 threshold
1 – Water in Fuel Input
2 – RTD Inputs
2 – VR or Hall Effect Speed Inputs
2 - Knock Sensors
2 - Frequency Inputs
 Inputs are 0-Vbatt with a 2.5V level
 threshold

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Outputs

4 - Low Frequency Analog Outputs
12 – Digital Outputs
 Open Collector will Sink .5A Max
6 - PWM Outputs
 Open Collector
 1 - 20A, 2 – 12A, 3 - 2A
8 - High Current Outputs
 Capable of currents up to 40A @ 80 Volts
 Nominal operation is 25A at 48 Volts
 Programmable Current Control Settings
 (independent across outputs)*
 Reverser Current Capable
3 – Vbatt Drive Stages
 12A Max @ Vbatt
 Programmable Current Control Settings
 (independent across outputs)
2 – Synthesized Timing Outputs
 Software Programmable
 ½ Degree Resolution
 Open Collector Outputs
4 – Ignition Outputs
 Open Collector Outputs will sink 10mA Max

*Each of the 8 high current outputs has independent timing control. However, the current settings for the high current outputs are applied to the outputs in pairs. In other words, there are six groups of current settings, and each group applies to two of the high current outputs.