



MicroSPECTRE

MicroSPECTRE was designed as a smaller version of our flagship SPECTRE 2 board. MicroSPECTRE has the same autopilot algorithms and capabilities as the SPECTRE 2, but less I/O and a smaller size.

The board outline is 71 x 46 mm, smaller than a credit card. This board is capable of controlling a twin engine motor vessel, and has the following specifications:

Specifications

Mechanical	45.7 x 71 mm PCB
Power supply	8 to 28V
Typical current draw (no external IO load)	45mA
Serial I/O	5 serial ports
Digital I/O	8 x I/O 3.3V or 5V selectable 4 outputs may be configured for PWM output
Analogue In	4 x 12 bit, 0V to +10V
Analogue out	2 x 12 bit, 0 to 5V
On board sensors	Gyro stabilised compass with roll and pitch rates

The I/O of the MicroSPECTRE can be expanded by using the GENIE modules, adding 8 x 12 bit analogue inputs, 8 x 12 bit analogue outputs, 8 digital inputs, and 8 digital outputs,

using one serial port. Up to 15 GENIE cards can be added onto one bus, providing up to 120 analogue inputs and outputs, and digital inputs and outputs.