

ANALOG16 - Analogue Input Expansion Module



ANALOG16 - 16 channel differential analogue input module

- 16 channels for high accuracy differential measurement of analogue signals
- Serial data connection for data output and configuration
- Configurable CAN data output
- .DBC file generation with settable units and notes
- 4 status LEDs for Power, Status, CAN and Serial communication
- Stacking case, connects neatly with other Race Technology system components
- Integration with Race Technology components, aligned connectors, single power supply connector
- Reverse polarity protection with resettable fuses for all inputs



Input	Identifying File Name (optional)	Calculator	Input resolution (bits)	Map channel to	Signal output rate (Hz)	CAN output rate (Hz)	CAN address (Hex)	CAN ID	Enabled / Disabled
01		x	12bits	analog1 - Prologue input 1	20Hz	Disabled	5A0000	Disabled	0/1
02		x	12bits	analog1 - Prologue input 2	20Hz	Disabled	5A0010	Disabled	0/1
03		x	12bits	analog1 - Prologue input 3	20Hz	Disabled	5A0020	Disabled	0/1
04		x	12bits	analog1 - Prologue input 4	20Hz	Disabled	5A0030	Disabled	0/1
05		x	12bits	analog1 - Prologue input 5	20Hz	Disabled	5A0040	Disabled	0/1
06		x	12bits	analog1 - Prologue input 6	20Hz	Disabled	5A0050	Disabled	0/1
07		x	12bits	analog1 - Prologue input 7	20Hz	Disabled	5A0060	Disabled	0/1
08		x	12bits	analog1 - Prologue input 8	20Hz	Disabled	5A0070	Disabled	0/1
09		x	12bits	analog10 - Prologue input 10	20Hz	Disabled	5A0080	Disabled	0/1
10		x	12bits	analog10 - Prologue input 11	20Hz	Disabled	5A0090	Disabled	0/1
11		x	12bits	analog10 - Prologue input 12	20Hz	Disabled	5A00A0	Disabled	0/1
12		x	12bits	analog10 - Prologue input 13	20Hz	Disabled	5A00B0	Disabled	0/1
13		x	12bits	analog10 - Prologue input 14	20Hz	Disabled	5A00C0	Disabled	0/1
14		x	12bits	analog10 - Prologue input 15	20Hz	Disabled	5A00D0	Disabled	0/1
15		x	12bits	analog10 - Prologue input 16	20Hz	Disabled	5A00E0	Disabled	0/1
16		x	12bits	analog10 - Prologue input 17	20Hz	Disabled	5A00F0	Disabled	0/1

Supplied with complete software suite, including unit configuration software, live data monitoring and comprehensive data analysis program.

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General	
Supply voltage	+5.5V to 24V
Power consumption	1W
Case construction	Die-cast aluminium
Dimensions	164 x 63 x 34mm
Mass	295g
IP rating	IP50
Operating temperature range	-40 to 70 °C
Mounting method	Cases stack to other RT products / Velcro / tie wraps
Outputs	RS232, CAN
CAN output	
Maximum baud rate	1 Mbit/s
Data rate	Configurable up to 100Hz per channel
Identifiers	Configurable addresses, 11 or 29 bit
RS232 (serial) connection	
Baud rate	Adjustable 4800-921600 baud
Data rate	Configurable up to 100Hz per channel
RS232 data format	RT format: analogue/temperature/pressure/aux/misc channels
Inputs - Analogue Inputs	
Input impedance	180k between + and - inputs
Sample rate	Variable up to 100Hz per channel
Internal resolution	3.28µV
Resolution	24 bits
Typical accuracy at 25 °C ambient	0.025% full scale
Hardware filter	RC digital low-pass
Maximum input range	-27 to +27V

Race Technology Ltd (UK)

16 King Street, Eastwood, Nottingham, NG16 3DA

Tel: +44 (0)1773 537620

Fax: +44 (0)1773 537621

Email: sales@race-technology.com