

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

ANALOG16 Configuration - v10.0.25

File Options

User notes:

Input	Calculus	Input equation [V]	Map channel to	Change name	Comment	Serial output rate (Hz)	CAN output rate (Hz)	CAN address (see DBC file)	CAN RTR	Enabled / Disabled
0	Disabled	x	analog 1 (Analogue input 1)	Edi	analog 1 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
1	Disabled	x	analog 2 (Analogue input 2)	Edi	analog 2 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
2	Disabled	x	analog 3 (Analogue input 3)	Edi	analog 3 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
3	Disabled	x	analog 4 (Analogue input 4)	Edi	analog 4 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
4	Disabled	x	analog 5 (Analogue input 5)	Edi	analog 5 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
5	Disabled	x	analog 6 (Analogue input 6)	Edi	analog 6 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
6	Disabled	x	analog 7 (Analogue input 7)	Edi	analog 7 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
7	Disabled	x	analog 8 (Analogue input 8)	Edi	analog 8 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
8	Disabled	x	analog 9 (Analogue input 9)	Edi	analog 9 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
9	Disabled	x	analog 10 (Analogue input 10)	Edi	analog 10 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
10	Disabled	x	analog 11 (Analogue input 11)	Edi	analog 11 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
11	Disabled	x	analog 12 (Analogue input 12)	Edi	analog 12 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
12	Disabled	x	analog 13 (Analogue input 13)	Edi	analog 13 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
13	Disabled	x	analog 14 (Analogue input 14)	Edi	analog 14 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
14	Disabled	x	analog 15 (Analogue input 15)	Edi	analog 15 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒
15	Disabled	x	analog 16 (Analogue input 16)	Edi	analog 16 - 20Hz	20Hz	Disabled	0x40120	Disabled	☒

☒ Use high speed serial output (4800)

☒ Pass through RT format serial messages

CAN baud rate: 115200 Change CAN ID length: 25 bit Change

☒ Use default RT CAN addresses Generate DBC file

Send Configuration Read Configuration

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	115200 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

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