

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 - v15.0.29

File Options

User notes:

Input	Smoothing filter time (s)	Calculus	Input equation (V)	Map channel to	Change name	Comment	Serial output rate (Hz)	CAN output rate (Hz)	CAN address (0-255)	CAN RTR	Enabled / Disabled
01	0 Disabled	0.575*10.0075	analog 1 (Analogue input 1)	E.d	analog 1 - 20Hz	20Hz	Disabled	Disabled	0x40120	Disabled	☒
02	0 Disabled	0.575*10.0075	analog 2 (Analogue input 2)	E.d	analog 2 - 20Hz	20Hz	Disabled	Disabled	0x40320	Disabled	☒
03	0 Disabled	0.575*10.0075	analog 3 (Analogue input 3)	E.d	analog 3 - 20Hz	20Hz	Disabled	Disabled	0x40520	Disabled	☒
04	0 Disabled	0.575*10.0075	analog 4 (Analogue input 4)	E.d	analog 4 - 20Hz	20Hz	Disabled	Disabled	0x40720	Disabled	☒
05	0 Disabled	0.575*10.0075	analog 5 (Analogue input 5)	E.d	analog 5 - 20Hz	20Hz	Disabled	Disabled	0x40920	Disabled	☒
06	0 Disabled	0.575*10.0075	analog 6 (Analogue input 6)	E.d	analog 6 - 20Hz	20Hz	Disabled	Disabled	0x40B20	Disabled	☒
07	0 Disabled	0.575*10.0075	analog 7 (Analogue input 7)	E.d	analog 7 - 20Hz	20Hz	Disabled	Disabled	0x40D20	Disabled	☒
08	0 Disabled	0.575*10.0075	analog 8 (Analogue input 8)	E.d	analog 8 - 20Hz	20Hz	Disabled	Disabled	0x40F20	Disabled	☒
09	0 Disabled	0.575*10.0075	analog 9 (Analogue input 9)	E.d	analog 9 - 20Hz	20Hz	Disabled	Disabled	0x41120	Disabled	☒
10	0 Disabled	0.575*10.0075	analog 10 (Analogue input 10)	E.d	analog 10 - 20Hz	20Hz	Disabled	Disabled	0x41320	Disabled	☒
11	0 Disabled	0.575*10.0075	analog 11 (Analogue input 11)	E.d	analog 11 - 20Hz	20Hz	Disabled	Disabled	0x41520	Disabled	☒
12	0 Disabled	0.575*10.0075	analog 12 (Analogue input 12)	E.d	analog 12 - 20Hz	20Hz	Disabled	Disabled	0x41720	Disabled	☒
13	0 Disabled	0.575*10.0075	analog 13 (Analogue input 13)	E.d	analog 13 - 20Hz	20Hz	Disabled	Disabled	0x41920	Disabled	☒
14	0 Disabled	0.575*10.0075	analog 14 (Analogue input 14)	E.d	analog 14 - 20Hz	20Hz	Disabled	Disabled	0x41B20	Disabled	☒
15	0 Disabled	0.575*10.0075	analog 15 (Analogue input 15)	E.d	analog 15 - 20Hz	20Hz	Disabled	Disabled	0x41D20	Disabled	☒
16	0 Disabled	0.575*10.0075	analog 16 (Analogue input 16)	E.d	analog 16 - 20Hz	20Hz	Disabled	Disabled	0x41F20	Disabled	☒

Serial settings: ☐ Use high speed serial output (480K) ☐ Pass through RT input serial messages

CAN settings: CAN baud rate: 11520 Change CAN ID length: 29 bit Change ☐ Use default RT CAN addresses Generate DBC file

Communications: Serial Port 1: 115200 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	
Baud rate	115200 baud
Data rate	Configurable up to 100Hz per channel
RS232 data format	RT format: analogue/temperature/pressure/aux/misc channels
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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