

K-BOX

Instrumentation

Multi-DAQ stackable thermocouple, analog and PWM module

SYSTEM & COMPATIBILITY

Function	Multi-DAQ (thermocouple, voltage, PWM) to CAN
Host required	No onboard storage; streams on CAN to host
Signal definition	DBC file
Cold junction	Automatic compensation

INPUTS & CAN

CAN channels	1 × CAN (output)
Analog inputs	8
Digital I/O	3 × PWM (frequency / counter / pulse)
Thermocouple inputs	Up to 8 (10 Hz sampling)
Protocols	CAN 2.0 (DBC configurable)

MEASUREMENT

Analog accuracy	±0.0015%
Analog range	±80 / ±40 / ±20 / ±10 V (switchable)
Analog resolution	16-bit ADC
Analog sampling	1 kHz (8ch) / 2 kHz (4ch) / 10 kHz (2ch)
Input impedance	> 4 Mohm
Thermocouple	8 × K/J/T, ±1 °C, 10 Hz
TC range	−200 to +1250 °C
PWM / digital	3 × up to 100 kHz; 4 × digital I/O

STORAGE & DATA

Onboard storage	None (streams via host)
Export	Via host logger CAN export
Configuration	K-CAL

POWER

Power saving	Wake-on-CAN, power-down
Max safe input	±150 V over-voltage protection on analog channels
Supply voltage	6 to 36 V DC
Sensor supply out	5 V and 24 V (max 80 mA)

COMPLIANCE & SECURITY

Isolation	Galvanic (enclosure, power, CAN, analog, TC)
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PHYSICAL

Dimensions	115 × 105 × 79 mm
Weight	450 g
Enclosure	ABS
IP rating	IP50
Mounting	Stackable, daisy-chainable
Stackable	Yes
Operating temp	−40 to +85 °C
Humidity	Max 90 %

CONNECTORS

Bus / I/O	25-pin D-Sub (analog), 9-pin D-Sub (CAN), thermocouple terminals
Indicators	2
PC interface	None

ORDERING

SKUs	INF2201
Origin	Designed and tested in the United Kingdom
Warranty	12 months