

Product Information

CAN Compact Modules

Characteristics

The SIQUAD **CAN Compact Modules** offer computer-controlled signal conditioning of various sensors. There are sensor-specific amplifiers available with 1 DSP per amplifier unit. Signal output is digital via CAN. The protocol is CAN 2.0B. Parameter setting is done with the software DaSoft via a USB-to-CAN interface. Signal filtering can be configured from 3..3000 Hz at 20 kS/s sample rate.

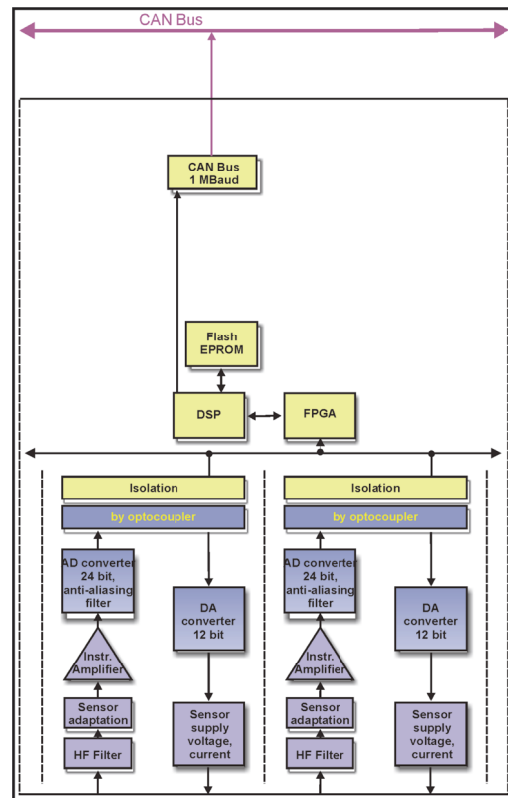


Technical Data

General	Accuracy	see sensors
	Channels/unit	4, 2x4, isolated (8, 2x8, isolated inputs with common ground)
	AD converter	24 bit / channel
	Sample rate	max. 20 kHz
	Band width	max. 5 kHz
	Digital output	CAN
	Input protection	± 100 V, ESD IEC 1000-4-2
	Supply voltage	9..36 V DC
	Environmental temperature	0..+50 °C
Strain gauge bridges	Range	0.5, 1, 2, 4, 5, 10, 25, 50 mV/V
	Accuracy	± 0.03 %
	Sensor supply	0.5, 1, 2.5, 4.5 V (> 120 Ω)
	Type of bridge	full bridge, half bridge, (> 120 Ω)
Voltage	Range	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 80 V
	max. input voltage	80 V
	Accuracy	± 0.03 %
Signal current	Range	± 20 mA, 4..20 mA
	Accuracy	± 0.1 %
Thermo-couples J,K	Range	-100 to +100, +200, +500, +1000 (1200) °C
	Accuracy	± 0.1 % (without CJC)
Pt100	Range	-100 to +100, +200, +500, +1000 °C
	Accuracy	± 0.1 %
ICP® Sensors	Range	1, 2, 5, 10 V
	min. input frequency	appr.. 2 Hz
	Accuracy	± 0.1 %
	Sensor supply	4 mA, 24 V
Frequency analog	Range	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100 kHz
	Accuracy	± 0.03 %
	Input voltage	± 0.05..80 V
	Sensor supply	4.5 V (50 mA)

Frequency digital	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20, 50, 100, 200, 500 kHz
	Accuracy	± 0.03 %
	Input voltage	TTL / CMOS
	Sensor supply	4.5 V (50 mA)
Torque meter, Telemetry	Range	10 kHz ± 5 kHz, 100 kHz ± 45 kHz
	Accuracy	± 0.03 %
	Input voltage	TTL / CMOS
	Sensor supply	4.5 V (50 mA)
Incremental encoder	Range	Variable, set by no. of pulses
	Accuracy	± 0.03 %
	Input voltage	TTL / CMOS
	Sensor supply	4.5 V (50 mA)
	Direction	without, static, dynamic / with sense/Sync
		sync, without sync

Block Diagram (exemplary for 2 channels)



Dimensions

SCC1: 130 x 250 x 45 mm, 130 x 130 x 45 mm (WxHxD)
 SCC2: 130 x 250 x 75 mm, 130 x 130 x 75 mm (WxHxD)

Ordering Codes see next page

Product Information

Ordering Codes

SCC1 - ^{1.} - ^{2.} - ^{3.}

1. Sensor type with 1 amplifier unit	
DMS4	4 channels Strain Gauge
DCU4	4 channels DC voltage
DCI4	4 channels Signal current
DCU8	8 channels DC voltage
TC4J	4 channels Thermocouples type J
TC4K	4 channels Thermocouples type K
TC8K	8 channels Thermocouples type K
TC4T	4 channels Thermocouples type T
PT100 4	4 channels Pt100
ICP4	4 channels ICP
AO4	4 channels voltage ± 10 V to BNC sockets
AO8	1x8 channels voltage ± 10 V to BNC sockets
DIO8	simple DIO operation
DIO8-4Z	count function for 4 counters
2. Terminal	
	Standard BNC, MTC, BB5
BB7	7-pole Binder socket
LB7	7-pole Lemo socket
3. Housing type	
H	Box (standard)
L	Flange
T	Mounting rail

SCC2 - ^{1.} - ^{2.}

1. Sensor type with 2 amplifier units	
TC4J	2x4 channels Thermocouples type J
TC4K	2x4 channels Thermocouples type K
TC8K	2x8 channels Thermocouples type K
TC4T	2x4 channels Thermocouples type T
2. Housing type	
H	Box (standard)
L	Flange
T	Mounting rail

SCC-KONF - ^{1.} - ^{2.}



1. Interface	
X	USB-CAN Adapter for all CAN Modules with IXXAT driver
V	Vector driver
2. Model	
DW	Windows software for parameterizing of modules