

**Product Information**

# SIQUAD Ethernet Compact Module Uni

## Characteristics

The **SIQUAD Ethernet Compact Module Uni** offers computer-controlled signal conditioning of various sensors. The universal amplifier is using one separate DSP per channel. Parameter setting is done with the software DaSoft. Signal filtering can be configured from 3..3000 Hz at 20 kS/s sample rate. Signal output is digital via Ethernet.

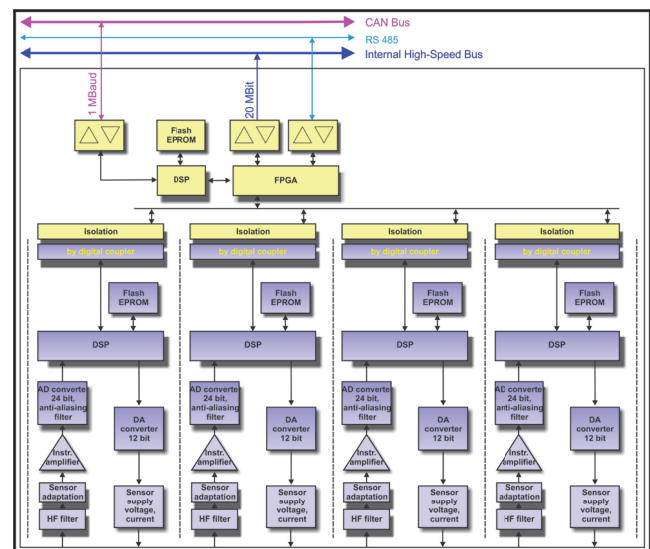


## Technical Data

<b>General</b>	Accuracy	See sensor details
	Channels/unit	4, isolated
	AD converter	24 Bit / channel
	Sample rate	max. 20 kHz
	Band width	max. 5 kHz
	Digital output	Ethernet
	Input protection	± 80 V, ESD IEC 1000-4-2
<b>Strain gauge bridges</b>	Supply voltage	9..36 V DC
	Sensor supply	0.5, 1.0, 2.5, 4 V (50 mA), 24 V (40 mA)
	Environmental temperature	0..+50 °C
	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/half bridge (> 120 Ω), quarter bridge (120 Ω, 350 Ω) (optional)
<b>Voltage</b>	Range	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 80 V
	Accuracy	± 0.05 %
	max. input voltage	80 V
	Impedance	100 kΩ (> 5 V range)
	Diff. input	yes
<b>Signal current</b>	Range	± 20 mA, 4..20 mA
	Accuracy	± 0.1 %
<b>Current transmitter</b>	Sensor supply	24 V (max. 40 mA)
<b>Potentiometer 3-wire conn.</b>	Range	6.25, 12.5, 25, 50, 100%
	Accuracy	± 0.1 %
	Sensor supply	2.5 V
<b>Thermo couples J,K (others opt.)</b>	Range	±100, ±200, -200..+500, -200..+1000 °C
	Accuracy	± 0.1 % (without CJC)
	Adapter cable with integrated CJC (Binder resp. Lemo to TC-Mini) required	
<b>Pt100</b>	Range	±100, ±200, -200..+500, -200..+1000 °C
	Accuracy	± 0.1 %
<b>ICP® sensors</b>	Range	1, 2, 5, 10 V
	min. input frequency	appr. 7 Hz
	Accuracy	± 0.1 %
	Sensor supply	4 mA, 22 V

<b>Frequency analog</b>	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20 kHz
	Accuracy	± 0.05 %
	Input voltage	± 0.02..70 V
<b>Frequency digital</b>	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20, 50, 100, 200, 500 kHz
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS (≥ 3.5 V)
<b>Torque meter, Telemetry (Discriminator)</b>	Range	Free entry of mid frequency and stroke, max. 100 kHz
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS (≥ 3.5 V)
<b>Incremental encoder</b>	Range	Variable, set by no. of pulses
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS
<b>PWM sensors</b>	Direction sense/sync	without, static, dynamic / with sync, without sync
	Range	100 Hz, 1 kHz, 10 kHz
	Accuracy	± 0.2 %
<b>PWM sensors</b>	Accuracy	± 0.2 %
	Input voltage	TTL / CMOS (≥ 3.5 V)

## Block Diagram



## Dimensions

SEC1: 225 x 165 x 65 mm (BxHxT)

## Ordering Code

SEC1 -  1. -  2. -  3.

<b>1. Sensor type with 1 amplifier unit</b>	
UNI4	4 channel universal
<b>2. Terminal</b>	
BB7	7-pole Binder socket (standard)
LB7	7-pole Lemo socket
<b>3. Housing type</b>	
HL	Box (Standard)
LL	Flange
TL	DIN rail