

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. Signal output is digital via TCP/IP. Parameter setting is done with the software DaSoft. Signal filtering can be configured from 3..3000 Hz at 20 kS/s sample rate

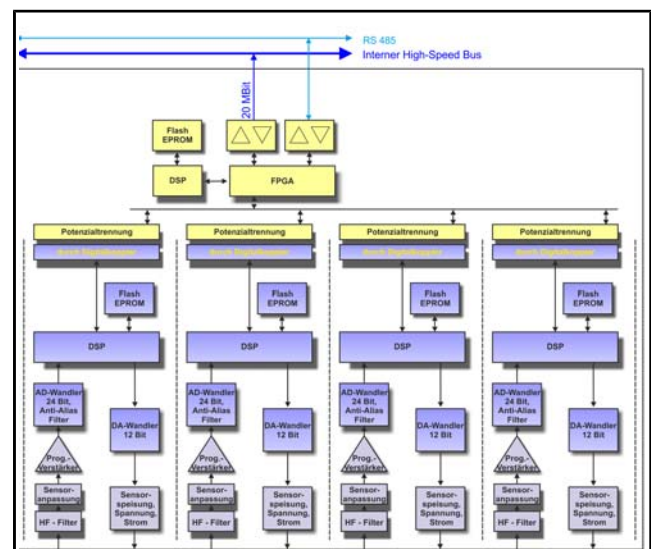


Technical Data

General	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
	Supply voltage	9..36 V DC
Strain gauge bridges	Sensor supply	0.5, 1.0, 2.5, 4 V (50 mA), 24 V (40 mA)
	Environmental temperature	0..+50 °C
Voltage	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)
Signal current	Type of bridge	full bridge (> 120 Ω), half bridge (> 120 Ω), quarter bridge (120 Ω, 350 Ω) (optional)
	Range	0.5, 1, 2, 5, 10, 20, 50, 80 V
	Accuracy	± 0.05 %
	max. input voltage	80 V
	Impedance	100 kΩ (> 5 V range)
Current transmitter	Diff. input	yes
	Range	± 20 mA, 4..20 mA
Potentiometer	Accuracy	± 0.1 %
	Sensor supply	24 V (max. 40 mA)
Thermo couples J,K (others opt.)	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	
Pt100	Range	±100, ±200, -200..+500, -200..+1000 °C
	Accuracy	± 0.1 %
ICP® sensors	Range	1, 2, 5, 10 V
	min. input frequency	appr. 7 Hz
	Accuracy	± 0.1 %
	Sensor supply	4 mA, 22 V

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

Block Diagram



Dimensions

SEC1: 225 x 165 x 65 mm (BxHxT)

Ordering Code

SEC1 - 1. - 2. - 3.

1. Sensor type with 1 amplifier unit	UNI4	4 channel universal
2. Terminal	BB7	7-pole Binder socket (standard)
	LB7	7-pole Lemo socket
3. Housing type	H	Box (Standard)
	L	Flange
	T	DIN rail