

TRION-CNT-6-L1B *Isolated Advanced counter module*

- **Sampling** *80 MHz time base*
204.8 kS/s per channel
- **Input types** *Event, waveform timing and sensor mode*
Programmable threshold and AC/DC coupling for ideal signal adaption



TRION-CNT specifications	
Input channels	6 advanced counters or 18 digital inputs
Counter modes	
Event counting	Basic event counting, gated counting, up/down counting and encoder mode (X1, X2 and X4)
Waveform timing	Period, frequency, pulse width duty cycle and edge separation
Sensor modes	Encoder (angle and linear)
Input signal characteristic	
Rated input voltage (max.)	70 V _{DC} (46.7 V _{PEAK})
Compatibility	Adjustable trigger levels
Configuration	Isolation (± 500 V _{DC}) for each input channel
Input coupling	DC and AC (1Hz) AC for input A only
Input impedance (ground referenced)	1 M Ω / 5 pF
Sampling rate	204.8 kS/s per channel
Bandwidth (-3dB)	5 MHz
Trigger adjustment range	0 to 50 V
Trigger resolution	12 mV
Trigger level accuracy	± 20 mV $\pm 1\%$ of threshold/retrigger level
Overvoltage protection	± 100 V continuous
Max. DC level @AC coupling	± 50 V continuous
Counter resolution	32-bit
Counter time base	80 MHz
Time base accuracy	typ. 10 ppm (defined by the backplane)
Sensor power supply (per module)	5 V (600 mA) and 12 V (600 mA), not isolated
Typical power consumption	5 W (without sensor supply)
Connector	6x LEMO 1B.307 sockets
Weight	Appr. 240 g

Cables for TRION-CNT modules

TRION cables				
	Connector	Termination	Length	TRION modules
TRION-CBL-L7OE-05-00	LEMO 1B.307	open end	5 m	TRION-BASE, TRION-CNT-6-L1B

Mating connector

Connector				
	Connector	Termination	Length	TRION modules
LEMO-FGG.1B.307.CLAD42Z	LEMO 1B.307	mating connector, for cable diameter 3.1 to 4.2 mm	-	TRION-CNT-6-L1B
LEMO-FGG.1B.307.CLAD52Z	LEMO 1B.307	mating connector, for cable diameter 4.2 to 5.2 mm	-	TRION-CNT-6-L1B
LEMO-FGG.1B.307.CLAD62Z	LEMO 1B.307	mating connector, for cable diameter 5.2 to 6.2 mm	-	TRION-CNT-6-L1B
LEMO-FGG.1B.307.CLAD72Z	LEMO 1B.307	mating connector, for cable diameter 6.2 to 7.2 mm	-	TRION-CNT-6-L1B