

TRION-BASE

Counter, DIO and synchronization module

- Counter channels: 2 advanced counters
- Digital I/O: 8 DIO and 8 DI
- Synchronization: IRIG code B, DC I/O
- Additional features: 1 AUX socket (by default set to camera trigger)



TRION-BASE specifications	
Digital I/O specifications	
Number of channels	8 DIO + 8 DI
Compatibility (Input)	CMOS/TTL
Compatibility (Output)	TTL, 20 mA
Overvoltage protection	±30 V permanent, 50 V peak (for 100 msec)
Sensor power supply (module total)	5 V (600 mA) and 12 V (600 mA)
Connector	SUB-D-25 socket
SUBD-25 SYNC OUT specifications	
Functionality	Acquisition clock and trigger output (can be used to sync two systems/enclosures)
Compatibility (Input)	LVTTTL
Compatibility (Output)	LVTTTL, 10 mA
Overvoltage protection	±20 V
Connector	On same SUB-D-25 socket as Digital I/O
Counter specifications	
Number of channels	2 advanced counters or 6 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)
Compatibility (Input)	CMOS/TTL
Counter resolution	32-bit
Counter time base	80 MHz
Time base accuracy	typ. 10 ppm (defined by the back plane)
Maximum input frequency	10 MHz
Overvoltage protection	±30 V permanent, 50 V peak (100 msec)
Sensor power supply (module total)	5 V (600 mA) and 12 V (600 mA)
Connector	LEMO 1B.307
AUX specifications	
Functionality	Camera trigger, trigger input/output, acquisition clock and programmable clock output
Compatibility (Input)	LVTTTL
Compatibility (Output)	LVTTTL, 10 mA
Overvoltage protection	±20 V
Connector	SMB socket
Timing specifications	
Input sources	IRIG code B, DC
Output signals	IRIG code B, DC
Input specification	
Compatibility (DC code)	DC Level Shift TTL / CMOS Compatible
Impedance	20 kΩ
Output specification	
Compatibility (DC code)	TTL, 20 mA
Adjustment range	±150 ppm
Clock acc. IRIG locked	without drift
Clock acc. IRIG unlocked	< 1 ppm
Isolation voltage	350 V _{DC}
Connector	BNC socket
General specifications	
Power consumption	5 W
Temperature Range	0 - 50 °C
Weight	Appr. 240 g

TRION cables				
	Connector	Termination	Length	TRION modules
TRION-CBL-L1B7-OE-05-00	LEMO 1B.307	open end	5 m	TRION-BASE, TRION-CNT-6-L1B
TRION-CBL-CAMTRG-03-00	SMB	To synchronize a DEWE-CAM-FW-70 via an AUX socket of TRION modules	3 m	TRION-BASE, TRION-TIMING