TRION3-1810-SUB-8



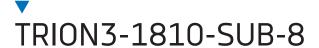
- ▶ Modular voltage and current inputs
- ▶ Sampling: up to 1 MS/s



Module specifications

TRION3-1810-SUB-8 specifications			
Input channels	Up to 8 channels with modular voltage and current inputs		
Sampling rate	Up to 1 MS/s		
Input specifications	For detailed information about the input specifications refer to <u>TRION sub-modules</u> in the TRION(3) series modules technical reference manual.		
Typical channel to channel phase mismatch	<250 ns (0.1° @ 1 kHz, 0.005° @ 50 Hz)		
(Voltage-Voltage, Current-Current, Voltage-Current)			
Typical board-to-board phase mismatch			
 Same board type 	<250 ns (0.1° @ 1 kHz, 0.005° @ 50 Hz)		
 Different board type 	±1 sample or 0.2° @ 1 kHz (whichever is higher)		
Low pass filter (-3 dB, digital and analog combined)	100 Hz to 1 MHz freely programmable or OFF		
 Filter order and characteristics 	2nd, 4th, 6th, 8th Bessel or Butterworth		
Filter delay compensation	Up to 15 μs the group delay of the selected filter will be automatically compensated. This works for:		
	 2nd order filter 15 kHz to 1 MHz 		
	 4th order filter 30 kHz to 1 MHz 		
	 6th order filter 60 kHz to 1 MHz 		
Onboard data buffer	512 MB		
Power consumption	Typ. 8 W, max. 10 W		
with sensor supply	Max. 15 W		
Total sensor supply			
 with TRION-POWER-SUB-dLV-xV modules 	+9 V: 200 mA / -9 V: 200 mA		

Tab. 57: General specifications





Connection

Connection ports



Fig. 155: Connection ports

Interchangeable sub-modules

The TRION3-18xx-SUB-8 module provides 8 slots for TRION sub modules, thus allowing a very modular configuration of various voltage and current inputs.



Fig. 156: Available TRION sub-modules

The following TRION-SUB-xV modules can be combined as desired. For detailed information about the various TRION sub-modules refer to <u>TRION sub-modules</u> of the TRION(3) series modules technical reference manual.

Туре	Range	Bandwidth	Isolated
TRION-SUB-600V	600 V _{RMS} (±1500 V _{PEAK})	300 kHz	Yes
<u>TRION-SUB-5V</u>	5 V _{RMS} (±10 V _{PEAK})	300 kHz	Yes
TRION-SUB-XV	600 V _{RMS} (±1000 V) ¹⁾ 60 V _{RMS} (±100 V) 6 V _{RMS} (±10 V) 0.6 V _{RMS} (±1 V)	300 kHz	Yes
TRION-POWER-SUB-CUR-20A-1B	20 A _{RMS} (±40 A _{PEAK})	300 kHz	Yes
TRION-POWER-SUB-CUR-2A-1B	2 A _{RMS} (±4 A _{PEAK})	300 kHz	Yes
TRION-POWER-SUB-CUR-1A-1B	1 A _{RMS} (±2 A _{PEAK})	300 kHz	Yes
TRION-POWER-SUB-CUR-02A-1B	0.2 A _{RMS} (±0.4 A _{PEAK})	300 kHz	Yes
TRION-POWER-SUB-dLV-5V	5 V _{RMS} (±10 V _{PEAK})	5 MHz	No
TRION-POWER-SUB-dLV-1V	1 V _{RMS} (±2 V _{PEAK})	5 MHz	No

Tab. 58: Supported TRION sub-modules

INFORMATION

The <u>TRION-POWER-SUB-dLV-1</u> sub-module is not supported.

⁶⁾ Max. allowed input: 600 V CAT II (850 V_{DEAY}).