

TRIONet

- 1 Display for status information
- 2 Slots for TRION™ modules
- 3 Sync input/output
- 4 2x Gbit Ethernet
- 5 USB 3.0



	TRIONet	
Slots for TRION™ modules ¹⁾	2	
Quasi-static channel expansion	CPAD via TRION-CAN or TRION-MULTI (no EPAD)	
	TRION-1820-POWER-4	TRION-2402-V-8
Voltage input	1000 V ($\pm 2000 V_{PEAK}$)	up to 500 V ($\pm 1000 V_{PEAK}$)
Direct current input	up to 20 A ($\pm 40 A_{PEAK}$)	up to 7 A ($\pm 15 A_{PEAK}$)
Transducer, clamp input	5 V ($\pm 10 V_{PEAK}$)	from ± 300 mV
Bandwidth	> 5 MHz	77 kHz
Typical accuracy	45 to 1 kHz ± 0.02 % of reading ± 0.01 of range	DC to 1 kHz ± 0.02 % of reading ± 0.02 of range ± 3 mV
Typical power accuracy	45 to 1 kHz ± 0.02 % of reading ± 0.02 % of range (TRION-1820-POWER-4 with direct current input)	
Dynamic channel expansion	Ethernet, TRIONet	
Quasi-static channel expansion	EPAD2 interface connector, CPAD2/3 via TRION-CAN	
A/D conversion		
Sampling method	Simultaneous	
Sampling rate	2 MS/s per channel	204,8 kS/s per channel
Resolution	18 bit	24 bit
Main system ²⁾		
LAN	2 x 10/100/1000BASE-TX Gigabit Ethernet	
LAN configuration	DHCP or Static IP	
USB	USB 2.0; USB 3.0	
Synchronization	TRION-SYNC-Bus up to 100 m between nodes	
System bandwidth	90 MB/s with one connected TRIONet (up to 50 MB/s with more than one)	
Display	Status display with touch-screen	
Cooling	2 temperature controlled ultra silent fans	
Supported operating systems	Windows 7; Windows 10	
Supported interfaces	USB 3.0; USB 2.0; 10/100/1000BASE-TX Gigabit Ethernet	
Isolated power supply (max)	10 to 32 V_{DC} (9 to 36 V_{DC})	
Power consumption	Without modules 15 W, totally equipped max. 55 W	
External power supply (included)	100 to 240 V ~50 to 60 Hz / 65 W	
Dimensions (W x D x H)	320 x 205 x 55 mm (12.6 x 8 x 2.2 in.)	
Weight	Typ. 1.9 kg (4.2 lb.) without modules	
Environmental specifications		
Operating temperature	-20 °C to +60 °C (with pre-warmed unit)	
Storage temperature	-20 to +70 °C	
Humidity	10 to 90 % non cond., 5 to 95 % rel. humidity	
Max. altitude	3000 m (9840 ft)	
Sine vibration (EN 60068-2-6)	20 m/s ²	
Shock (EN 60028-2-27)	30 g	
Random vibration (EN 60721-3-2)	Class 2M3	
1) Unsupported modules: TRION-FLEXRAY; TRION-A429; TRION-M1553; TRION-MA4; TRION-1628-A0-2		
2) Depends on the system configuration		