

TRION-VGPS-20/100-V3 specifications		
RJ-45 Ethernet	10/100 Mbit Ethernet connection; only for synchronization, no data transfer possible.	
Programmable correction limit	10 ns to 500 ms	
IRIG input specifications		
Supported codes	IRIG code A or B; AM or DC (A007, A127, B007, B127)	
Compatibility (AM code)	0.5 Vp-p to 10 Vp-p	
Compatibility (DC code)	DC level shift (edge detection); TTL / CMOS compatible	
	Low: <1.5 V High: >3.5 V	
Impedance	20 kΩ	
Isolation voltage	350 V _{DC}	
Connector	BNC	
IRIG output specifications		
Supported codes	IRIG code B, DC (B007)	
Digital I/O specifications		
Number of channels	8	
Compatibility (input)	CMOS/TTL, weak pull-up 100 kΩ to +5 V	
	Low: <0.8 V High: >2.0 V	
Compatibility (output)	TTL, 20 mA	
Overvoltage protection		
	<ul style="list-style-type: none"> - Input mode ±30 V_{DC} - Output mode -0.5 to +5.5 V; short circuit protected 	
Connector	D-SUB-15 socket	
Counter specifications		
Number of channels	1 advanced counter or 3 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), gear tooth with/without zero, gear tooth with missing/double teeth
Input signal compatibility	CMOS/TTL	
Counter resolution	32-bit	
Counter time base	80 MHz	
Time base accuracy	Typical 10 ppm (DEWE2); 2 ppm (DEWE3); (defined by the backplane)	
Maximum input frequency	10 MHz	
Overvoltage protection	±30 V _{DC} , 50 V _{PEAK} (for 100 ms)	
Sensor power supply	5 V (600 mA) and 12 V (600 mA)	
Connector	On same D-SUB-15 socket as Digital I/O	
AUX specifications		
Functionality	Camera trigger, trigger input/output, acquisition clock and programmable clock output	
Compatibility (input)	LVTTL	
Compatibility (output)	LVTTL, 10 mA	
Overvoltage protection	±20 V _{DC}	

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TRION-VGPS-20/100-V3 specifications	
Connector	SMB socket
General specifications	
Typical power consumption	5 W
Temperature Range	0–50 °C
Weight	Approx. 240 g

Tab. 66: Module specifications

- 1) Typical values. Performance specifications subject to GNSS system characteristics, Signal-In-Space (SIS) operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference
- 2) Typical value. No almanac or ephemerides and no approximate position or time.
- 3) Typical value. No almanac or ephemerides and no approximate position or time.
- 4) Typical value. Almanac and recent ephemerides saved and approximate position and time entered.