



Electrical specifications are valid over a -40 to +70 °C, non-condensing environment, unless otherwise specified. Extended electrical specifications (noted as XT in specifications) are valid over a -55 to +85 °C non-condensing environment. Recalibration is recommended every three years. Critical specifications and system configuration should be confirmed with Campbell Scientific before purchase.

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System specifications

Processor: Renesas RX63N (32-bit with hardware FPU, running at 100 MHz)

Memory:

- Total onboard: 128 MB of flash + 4 MB battery-backed SRAM
 - Data storage: 4 MB SRAM + 72 MB flash (extended data storage automatically used for auto-allocated Data Tables not being written to a card)
 - CPU drive: 30 MB flash
 - OS load: 8 MB flash
 - Settings: 1 MB flash
 - Reserved (not accessible): 10 MB flash
- Data storage expansion: Removable microSD flash memory, up to 16 GB

Program Execution Period: 1 ms to 1 day

Real-Time Clock:

- Battery backed while external power is disconnected
- **Resolution:** 1 ms
- **Accuracy:** ±3 min. per year, optional GPS correction to ±10 µs

Wiring Panel Temperature: Measured using a 10K3A1A BetaTHERM thermistor, located between the two rows of analog input terminals.

Physical specifications

Dimensions: 23.8 x 10.1 x 6.2 cm (9.4 x 4.0 x 2.4 in); additional clearance required for cables and wires.

Weight/Mass: 0.86 kg (1.9 lb)

Case Material: Powder-coated aluminum

Operating Temperature Range:

- -40 °C to +70 °C (standard)
- -55 °C to +85 °C (extended)

Storage Temperature Range: -60 to 85 °C

Operating Humidity: 0 to 100 %RH, non-condensing environment

Power requirements

Protection: Power inputs are protected against surge, over-voltage, over-current, and reverse power. IEC 61000-4 Class 4 level.

Power In Terminal:

- **Supply Voltage:** 10 to 36 VDC
- **Sustained Supply Voltage without Damage:** 38 VDC

Vehicle Power Connection: When primary power is pulled from the vehicle power system, a second power supply OR charge regulator may be required to overcome the voltage drop at vehicle start-up.

USB Power: Functions that will be active with USB 5 VDC applied include sending programs, adjusting data logger settings, and making some measurements. If USB is the only power source, then the CS I/O port and the 5V, 12V, and SW12 terminals will not be operational.

Internal Lithium Battery: AA, 2.4 Ah, 3.6 VDC (Tadiran TL 5903/S) for battery-backed SRAM and clock. 3-year life with no external power source.

Average Current Consumption (typ. at 20 °C):

Operating state	12 V Supply voltage	24 V Supply voltage
Idle	2.0 mA	<1.0 mA
Active 1 Hz Scan	2.0 mA	1.1 mA
Active 20 Hz Scan	57 mA	36 mA
Serial (RS-232/RS-485)	Active + 25 mA	Active + 16 mA
Ethernet Power Requirements:		
Ethernet 1 Minute	Active + 1 mA	Active + 0.7 mA
Ethernet Idle	Active + 4 mA	Active + 2.6 mA
Ethernet Link	Active + 47 mA	Active + 31 mA

power output specifications

System power output current limits

Temperature (°C)	12 V Supply voltage Current limit ¹ (A)	24 V Supply voltage Current limit ¹ (A)
-55°	3.4	4.4
-40°	3.4	4.4
20°	3.4	4.4
70°	2.5	4.2
85°	2.1	4.0

¹ Limited by self-resetting thermal fuse and maximum regulator output current.

Shared 12 V and SW12 power output

12V, SW12-1, and SW12-2 provide regulated 12 VDC power. These outputs are disabled when operating on only USB power.

Temperature (°C)	12 V Supply voltage Current limit ¹ (A)	24 V Supply voltage Current limit ¹ (A)
-55°	3.3	3.3
-40°	3.3	3.3

Temperature (°C)	12 V Supply voltage Current limit ¹ (A)	24 V Supply voltage Current limit ¹ (A)
20°	3.3	3.3
70°	2.5	3.3
85°	2.1	3.3

¹ Limited by self-resetting electronic and thermal fuses.

Individual maximum current for 12 V and SW12 output terminals

Regulated 12 V output. System power output current limits may override one or more of these individual limits. These outputs are disabled when operating on only USB power.

- **Voltage Output:** Regulated 12 V output (±5%)
- **Current Limit:** 2000 mA

5 V fixed output

Regulated 5 V output. Supply is shared between the 5V terminal and CS I/O DB9 5 V output.

- **Voltage Output:** Regulated 5 V output (±5%)
- **Current Limit:** 230 mA

Control port as power output

- C Terminals:
 - **Output Resistance (R_o):** 150 Ω
 - **5 V Logic Level Drive Capacity:** 10 mA @ 3.5 VDC
 - **3.3 V Logic Level Drive Capacity:** 10 mA @ 1.8 VDC

CS I/O pin 1: 5 V fixed output

Regulated 5 V output. Supply is shared between the 5V terminal and CS I/O DB9 5 V output.

- **Voltage Output:** Regulated 5 V output (±5%)
- **Current Limit:** 230 mA

CS I/O pin 8: 12 V switched output

Regulated 12 V output. Power output shared with system power output. This output is disabled when operating on only USB power.

- **Voltage Output:** Regulated 12 V output (±5%)
- **Current Limit:** 800 mA

Voltage excitation

VX: Four independently configurable voltage terminals (VX1-VX4). When providing voltage excitation, a single 16-bit DAC shared by all VX outputs produces a user-specified voltage during measurement only. VX terminals can also be used to supply a selectable, switched, regulated 3.3 or 5 VDC power source to power digital sensors and toggle control lines.

	Range	Resolution	Accuracy	Maximum source/sink current ¹
Voltage Excitation	±4 V	0.12 mV	±(0.1% of setting + 2 mV)	±40 mA
Switched, Regulated	+3.3 or 5 V	3.3 or 5 V	±5%	50 mA

¹ Exceeding current limits causes voltage output to become unstable. Voltage should stabilize when current is reduced to within stated limits.

Analog measurement specifications

16 single-ended (SE) or 8 differential (DIFF) terminals individually configurable for voltage, thermocouple, current loop, ratiometric, and period average measurements, using a 24-bit ADC. One channel at a time is measured.

Voltage measurements

Terminals:

- **Differential Configuration:** DIFF 1H/1L – 8H/8L
- **Single-Ended Configuration:** SE1 – SE16

Input Resistance: 20 GΩ typical

Input Voltage Limits: ±5 V

Sustained Input Voltage without Damage: ±20 VDC

DC Common Mode Rejection:

- >120 dB with input reversal
- ≥ 86 dB without input reversal

Normal Mode Rejection: > 70 dB @ 60 Hz

Input Current @ 25 °C: ±1 nA typical

Filter First Notch Frequency (f_{N1}) Range: 0.5 Hz to 31.25 kHz (user specified)

Analog Range and Resolution:

		Differential with input reversal		Single-ended and differential without input reversal	
Notch frequency (f_{N1}) (Hz)	Range ¹ (mV)	RMS (μ V)	Bits ²	RMS (μ V)	Bits ²
15000	±5000	8.2	20	11.8	19
	±1000	1.9	20	2.6	19
	±200	0.75	19	1.0	18
50/60 ³	±5000	0.6	24	0.88	23
	±1000	0.14	23	0.2	23
	±200	0.05	22	0.08	22
5	±5000	0.18	25	0.28	25

		Differential with input reversal		Single-ended and differential without input reversal	
Notch frequency (f_{N1}) (Hz)	Range ¹ (mV)	RMS (μ V)	Bits ²	RMS (μ V)	Bits ²
	±1000	0.04	25	0.07	24
	±200	0.02	24	0.03	23

¹ Range overhead of ~5% on all ranges guarantees that full-scale values will not cause over range

² Typical effective resolution (ER) in bits; computed from ratio of full-scale range to RMS resolution.

³ 50/60 corresponds to rejection of 50 and 60 Hz ac power mains noise.

Accuracy (does not include sensor or measurement noise):

- 0 to 40 °C: ±(0.04% of measurement + offset)
- -40 to 70 °C: ±(0.06% of measurement + offset)

Voltage Measurement Accuracy Offsets:

Range (mV)	Typical offset (μ V RMS)	
	Differential with input reversal	Single-ended or differential without input reversal
±5000	±0.5	±2
±1000	±0.25	±1
±200	±0.15	±0.5

Measurement Settling Time: 20 μ s to 600 ms; 500 μ s default

Multiplexed Measurement Time:

Measurement Time =

$$\text{Setup Time} + ((\text{Settling Time} + 1/f_{N1}) \times M \times \text{Repetitions})$$

Where:

M = 1 (default)

M = 2 if reverse differential or measurement offset is used

Setup Time = 150 μ s

	Differential with input reversal	Single-ended or differential without input reversal
Example f_{N1} ¹ (Hz)	Time ² (ms)	Time ² (ms)
15000	1.28	0.717
60	34.48	17.31
50	41.15	20.65
5	401.15	200.65

¹ Notch frequency (1/integration time).

² Default settling time of 500 μ s used.

Resistance measurement specifications

The data logger makes ratiometric-resistance measurements for four- and six-wire full-bridge circuits and two-, three-, and four-wire half-bridge circuits using voltage excitation. Excitation polarity reversal is available to minimize dc error.

Accuracy:

Assumes input reversal for differential measurements

RevDiff and excitation reversal **RevEx** for excitation voltage <1000 mV. Does not include bridge resistor errors or sensor and measurement noise.

- 0 to 40 °C: $\pm(0.01\%$ of voltage measurement + offset)
- -40 to 70 °C: $\pm(0.015\%$ of voltage measurement + offset)
- -55 to 85 °C (XT): $\pm(0.02\%$ of voltage measurement + offset)

Period-averaging measurement specifications

Terminals: SE1-SE16

Accuracy: $\pm(0.01\%$ of measurement + resolution), where resolution is 0.13 μs divided by the number of cycles to be measured

Ranges:

- Minimum signal centered around specified period average threshold.
- Maximum signal centered around data logger ground.
- Maximum frequency = $1/(2 * [\text{minimum pulse width}])$ for 50% duty cycle signals

Gain code option	Voltage gain	Minimum peak to peak signal (mV)	Maximum peak to peak signal (V)	Minimum pulse width (μs)	Maximum frequency (kHz)
0	1	500	10	2.5	200
1	2.5	50	2	10	50
2	12.5	10	2	62	8
3	64	2	2	100	5

Current-loop measurement specifications

The data logger makes current-loop measurements by measuring across a current-sense resistor associated with the RS-485 resistive ground terminal.

Terminals: RG1 and RG2

Sustained Input Voltage without Damage: $\pm 13.1\text{ V}$

Resistance to Ground: 101 Ω

Current Measurement Shunt Resistance: 10 Ω

Maximum Current Measurement Range: $\pm 80\text{ mA}$

Sustained Maximum Current without Damage: $\pm 130\text{ mA}$

Resolution:

- $\pm 1000\text{ mV range: } \leq 20\text{ nA}$
- $\pm 200\text{ mV range: } \leq 7.5\text{ nA}$

Accuracy: $\pm(0.1\%$ of reading + 100 nA) @ -40 to 70 °C

Pulse measurement specifications

Terminals individually configurable for switch closure, high-frequency pulse, or low-level AC measurements. Each terminal has its own independent 24-bit counter.

NOTE:

Conflicts can occur when a control port pair is used for different instructions (**TimerInput()**, **PulseCount()**, **SDI12Recorder()**, **WaitDigTrig()**). For example, if C1 is used for **SDI12Recorder()**, C2 cannot be used for **TimerInput()**, **PulseCount()**, or **WaitDigTrig()**.

Sustained Input Voltage without Damage: (P1-P2): $\pm 20\text{ VDC}$

Sustained Logic Input Voltage without Damage: (C1-C8): +16/-12 VDC

Maximum Counts Per Scan: 2^{24}

Input Resistance: 5 k Ω

Accuracy: $\pm(0.02\%$ of reading + 1/scan)

Low-level AC input

Terminals: P1-P2

Minimum Pull-Down Resistance: 10 k Ω to ground

DC-offset rejection: Internal AC coupling eliminates DC-offset voltages up to $\pm 0.05\text{ VDC}$

Input Hysteresis: 12 mV at 1 Hz

Low-Level AC Pulse Input Ranges:

Sine wave (mV RMS)	Range (Hz)
20	1.0 to 20
200	0.5 to 200
2000	0.3 to 10,000
5000	0.3 to 20,000

Switch closure input

Terminals: C1-C8, P1-P2

Pull-Up Resistance: 100 k Ω to 5 V

Event: Low (<0.8 V) to High (>2.5 V)

Maximum Input Frequency: 100 Hz

Minimum Switch Closed Time: 5 ms

Minimum Switch Open Time: 5 ms

Maximum Bounce Time: 1 ms open without being counted

High-frequency input

Terminals: C1-C8, P1-P2

Pull-Up Resistance: 100 kΩ to 5 V

Event: Low (<0.8 V) to High (>2.5 V)

Maximum Input Frequency: 250 kHz

Digital input/output specifications

Terminals configurable for digital input and output (I/O) including status high/low, pulse width modulation, external interrupt, edge timing, switch closure pulse counting, high-frequency pulse counting, plus UART¹, RS-232², RS-422³, RS-485⁴, SDM⁵, SDI-12⁶, I2C⁷, and SPI⁸ serial-communications functions. Terminals are configurable in pairs for 5 V or 3.3 V logic for some functions.

NOTE:

Conflicts can occur when a control port pair is used for different instructions (`TimerInput()`, `PulseCount()`, `SDI12Recorder()`, `WaitDigTrig()`). For example, if C1 is used for `SDI12Recorder()`, C2 cannot be used for `TimerInput()`, `PulseCount()`, or `WaitDigTrig()`.

Terminals: C1-C8

Sustained Logic Input Voltage without Damage: +16/-12 VDC

Logic Levels and Drive Current:

Terminal pair configuration	5 V source	3.3 V source
Logic low	≤ 1.5 V	≤ 0.8 V
Logic high	≥ 3.5 V	≥ 2.5 V
C1 - C8	10 mA @ 3.5V	10 mA @ 1.85V

Edge timing

Terminals: C1-C8

Maximum Input Frequency: ≤ 1 kHz

Resolution: 500 ns

Edge counting

Terminals: C1-C8

¹Universal Asynchronous Receiver/Transmitter for asynchronous serial communications.

²Recommended Standard 232. A loose standard defining how two computing devices can communicate with each other. The implementation of RS-232 in Campbell Scientific data loggers to computer communications is quite rigid, but transparent to most users. Features in the data logger that implement RS-232 communications with smart sensors are flexible.

³Communications protocol similar to RS-485. Most RS-422 sensors will work with RS-485 protocol.

⁴Recommended Standard 485. A standard defining how two computing devices can communicate with each other.

⁵Synchronous Device for Measurement. A processor-based peripheral device or sensor that communicates with the data logger via hardware over a short distance using a protocol proprietary to Campbell Scientific.

⁶Serial Data Interface at 1200 baud. Communications protocol for transferring data between the data logger and SDI-12 compatible smart sensors.

⁷Inter-Integrated Circuit is a multi-controller, multi-peripheral, packet switched, single-ended, serial computer bus.

⁸Serial Peripheral Interface - a clocked synchronous interface, used for short distance communications, generally between embedded devices.

Maximum Input Frequency: ≤ 2.3 kHz

Quadrature input

Terminals: C1-C8 can be configured as digital pairs to monitor the two sensing channels of an encoder.

Maximum Frequency: 2.5 kHz

Minimum Pulse Width: 10 μs

Pulse-width modulation

Terminals: C1-C8

Maximum Period: 128 seconds

Resolution:

- 0 – 5 ms: 83.33 ns
- 5 – 300 ms: 5.33 μs
- > 300 ms: 1.95 ms

Communications specifications

Ethernet Port: RJ45 jack, 10/100Base Mbps, full and half duplex, Auto-MDIX, magnetic isolation, and TVS surge protection.

Internet Protocols: Ethernet, PPP, RNDIS, ICMP/Ping, Auto-IP (APIPA), IPv4, IPv6, UDP, TCP, TLS (v1.2), DNS, DHCP, SLAAC, Telnet, HTTP(S), SFTP, FTP(S), POP3/TLS, NTP, SMTP/TLS, SNMPv3, CS I/O IP, MQTT

Additional Protocols: CPI, PakBus, PakBus Encryption, SDM, SDI-12, Modbus RTU / ASCII / TCP, DNP3 outstation, custom user definable over serial, NTCIP, NMEA 0183, I2C, SPI

USB: Type C 2.0. Full speed: 12 Mbps. Operates as:

- Device for computer communications

CS I/O: 9-pin D-sub connector to interface with Campbell Scientific CS I/O peripherals.

SDI-12 (C1, C3, C5, C7): Four independent SDI-12 compliant terminals are individually configured and meet SDI-12 Standard v 1.4.

RS-485 (C1 to C8): Up to two full duplex or four half duplex

RS-422 (C1 to C8): Up to two full duplex or four half duplex

RS-232/CPI: Single RJ45 module port that can operate in one of two modes: CPI or RS-232. CPI interfaces with Campbell Scientific CDM measurement peripherals and sensors. RS-232 connects, with an adapter cable, to computer, sensor, or communications devices serially.

CPI: One CPI bus. Up to 1 Mbps data rate. Synchronization of devices to 5 μs. Total cable length up to 610 m (2000 ft). Up to 20 devices. CPI is a proprietary interface for communications between Campbell Scientific data loggers and Campbell Scientific CDM peripheral devices. It consists of a physical layer definition and a data protocol.

Hardwired: Multi-drop, short haul, RS-232, fiber optic

Satellite: GOES, Argos, Inmarsat Hughes, Iridium

Standards compliance specifications

View compliance and conformity documents at www.campbellsci.com/cr1000x.

Test	Applied standard	Description
Shock and vibration:	MIL-STD 810G methods 516.6 and 514.6	
Protection:		
Wiring panel	IP40	
Measurement module when connected to wiring panel	IP65	
EMI and ESD immunity:		
ESD	IEC 61000-4-2	±15 kV air, ±8 kV contact discharge
Radiated RF	IEC 61000-4-3	10 V/m, 80-1000 MHz
EFT	IEC 61000-4-4	4 kV power, 4 kV I/O
Surge	IEC 61000-4-5	4 kV power, 4kV I/O
Conducted RF	IEC 61000-4-6	10 V power, 10 V I/O
Emissions and immunity performance criteria available on request.		

Warranty

Standard: Three years against defects in materials and workmanship.

Extended (optional): An additional four years, bringing the total to seven years.

Terminal functions

Analog input terminal functions																		
SE DIFF	1 2		3 4		5 6		7 8		9 10		11 12		13 14		15 16		RG1	RG2
	$\overline{1}$ H L	$\overline{2}$ H L	$\overline{3}$ H L	$\overline{4}$ H L	$\overline{5}$ H L	$\overline{6}$ H L	$\overline{7}$ H L	$\overline{8}$ H L	$\overline{9}$ H L	$\overline{10}$ H L	$\overline{11}$ H L	$\overline{12}$ H L	$\overline{13}$ H L	$\overline{14}$ H L	$\overline{15}$ H L	$\overline{16}$ H L		
Single-Ended Voltage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Differential Voltage	H	L	H	L	H	L	H	L	H	L	H	L	H	L	H	L		
Ratiometric/Bridge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Thermocouple	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Current Loop																	✓	✓
Period Average	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Pulse counting terminal functions			
	P1	P2	C1-C8
Switch-Closure	✓	✓	✓
High Frequency	✓	✓	✓
Low-level AC	✓	✓	

Analog output terminal functions	
	VX1-VX4
Switched Voltage Excitation	✓

Voltage Output							
	C1-C8 ¹	VX1-VX4	5V	12V	SW12-1	SW12-2	SW12-CSIO
5 VDC	✓	✓	✓				
3.3 VDC	✓	✓					
12 VDC				✓	✓	✓	✓

¹C terminal voltage levels are configured in pairs. The default voltage output from C terminals is 5 V. Use the [PortPairConfig](#) instruction in CRBasic to configure a C terminal pair to output 3.3 V.

Communications terminal functions									
	C1	C2	C3	C4	C5	C6	C7	C8	RS-232/CPI
SDI-12	✓		✓		✓		✓		
GPS	PPS	Rx	Tx	Rx	Tx	Rx	Tx	Rx	
TTL 0-5 V ¹	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	
LVTTL 0-3.3 V ¹	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	
RS-232*	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	✓

Communications terminal functions									
	C1	C2	C3	C4	C5	C6	C7	C8	RS-232/CPI
RS-485 (Half Duplex)	A-	B+	A-	B+	A-	B+	A-	B+	
RS-485 ² (Full Duplex)	Tx-	Tx+	Rx-	Rx+	Tx-	Tx+	Rx-	Rx+	
I2C	SCL	SDA	SCL	SDA	SCL	SDA	SCL	SDA	
SPI	SCLK	COPI	CIPO		SCLK	COPI	CIPO		
SDM ³	Data	Clk	Enabl		Data	Clk	Enabl		
CPI/CDM									✓

*ComC1 and ComC3 on the CR1000X are not designed to handle RS-232 signals, and long-term exposure—such as when connecting an RV50(X) modem—can damage the data logger.

¹ TTL and LVTTTL are configured with the CommsMode option of the [SerialOpen](#) instruction in CRBasic.

² RS-422 compatible.

³ SDM can be on either C1-C3 or C5-C7, but not both at the same time.

Communications functions also include Ethernet and USB.

WARNING:

While ComC1–ComC3 are compatible with RS-232 signals on the CR1000Xe, only ComC5 and ComC7 are compatible with RS-232 signals on the CR1000X. ComC1 and ComC3 on the CR1000X are not designed to handle RS-232 signals, and long-term exposure—such as when connecting an RV50(X) modem—can damage the data logger. An advantage of the CR1000Xe is that ComC1, ComC3, ComC5, and ComC7 all support RS-232 signals, whereas the CR1000X supports RS-232 only on ComC5 and ComC7.

Digital I/O terminal functions	
	C1-C8
General I/O	✓
Pulse-Width Modulation Output	✓
Timer Input	✓
Interrupt	✓
Quadrature	✓

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