Senquip QUAD-C2 Datasheet



Senquip manufactures rugged, programmable telemetry devices that connect to industrial sensors and systems and send the data measured to the Senquip Portal or a server of your choice.

RUGGED: The Senquip QUAD is designed for harsh outdoor environments; up a pole, on a wall or attached to a vehicle.

SENSING: Built in sensors measure GNSS position and speed, temperature, magnetic, pitch and roll, vibration, supply and battery voltage, and tamper. Interfaces are provided for RS232, RS485, MODBUS, CAN Bus, Bluetooth, 4-20mA, pulse, frequency, and voltage.

NETWORK: Data measured is transmitted via Wi-Fi or 4G LTE4 and can be delivered to the Senquip Portal or to your own server or SCADA system.

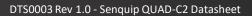
POWER: Power is supplied with solar, or 10V to 75V DC. If a solar panel is used, an internal LiPo battery will keep the device powered during periods without sunlight.

EDGE PROCESSING: Users can write JavaScript to manipulate data, create combinational alerts, execute local control, or create customised payloads for sending to 3rd party servers.



Technical Specification

Power	External supply: 10VDC to 75VDC Solar: typical 12V 10W, with regulator and backup battery internal to the Senquip QUAD Internal rechargeable backup battery: 3.7V, 1800mAh LiPo Typical current draw (LiPo): 65uA (sleep), 40-70mA (measure), 100mA (Wi-Fi), 120mA (4G LTE)			
Configuration	Local via embedded webserver Remote via the Senquip Portal			
Edge Processing	Write and deploy JavaScript applications to manipulate data, create combinational alerts, execute local control, or create customised payloads for sending to 3rd party servers.			
Internal Sensors	Bluetooth version 4.2	B-axis, ±16G. Pitch and roll accuracy ±1°, 100Hz vibration ature: -40 to 85°C, accuracy ±1°C mal LiPo voltage monitoring n through use of internal light sensor r for magnetic triggering		
Multi purpose Inputs/Output	5 multi purpose input outputs		SSID: QUAD-ICE ID> SETUP IP: 192,1684,1	
	Output: Switch to ground 250mA Switch to input power, 100mA Switch to internal boost, 100mA Boost configurable 5-25V, 100mA			
Serial RS232 (3-wire), RS485 (2-wire) Serial capture or MODBUS RTU Master 2 x CAN Bus: High Speed CAN FD (4Mbps), Line Faults to ±60V				
Network	4G LTE CAT-M1 (QUAD-C2-G) / 4G LTE CAT-1 (QUAD-C2-H) SIM card holder for Micro-SIM (internal soldered SIM optional) Wi-Fi (QUAD-C2-W) Endpoint: Senquip Portal and 3rd party MQTT(S), HTTP(S), UDP servers Data format: JSON or script your own			
Mechanical	Dimensions: 147mm wide, 128mm height (including cable gland), 37mm depth External FAKRA GPS and 4G LTE antenna with 3m cable (included) Weight: 400g excluding antenna Enclosure material: UV stabilised glass filled nylon Stainless lid screws, spring mounted and captive Terminal block wire size: 24 (min) to 16 (max) AWG			
Environmental	Operating temperature: -40°C to 85°C	Part Number	Network Features	
	Water Ingress: IP67	QUAD-C2-W	Wi-Fi	
Warranty	1 year from date of purchase	QUAD-C2-G	Wi-Fi, 4G LTE CAT-M1, GNSS	
		QUAD-C2-H	Wi-Fi, 4G LTE CAT-1, GNSS	



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