![Xsense®]

CU2™ Series
Gateway

CU2™ series gateways are used for reading data from HiTag2™ data loggers.

CU2™ series gateways initiate communications with Xsense® HiTag2™ data loggers over sub-Giga RF. The data loggers pass the readings that they have stored to the gateway, which processes the readings and then passes it to Xsense® Cloud via LAN or Cellular connection.

The CU2™ series of gateways are suitable for mounting in fixed locations indoors, out of doors, on vehicles, or may be carried as a portable unit. They can support external GPS readers and can control connected devices.

Data Collection   Data Transmission   Cellular   Cloud   Decision Making Information

Xsense® CU2™ Specification – 3G Version (including LAN connection)

GSM:	**Modem**: Telit HE910 module
	GSM features:
	    Quad-band: GSM/GPRS/EDGE- 850,900,1800,1900 MHz
	              UMTS/HSPA+:800/850,900, AWS1700,1900,2100 MHz
	    Integrated SIM card reader for 1.8V or 3.3V
	Output power:
	    class 4 (2W) @ 850/900 MHz / class 1 (1W) @ 1800/1900 MHz
	    class 3 (0.25W) @ UMTS / class E2 (0.5W) @ EDGE 850/900
	    class E2 (0.4W) @ EDGE 1800/1900
	Sensitivity:
	    111dbm@UMTS/109dbm@GSM850/900MHz/110dbm@DCS1800/PCS1900

ISM/SRD band:	**Assigned frequency range** (recommendation 70-03)
	    (FCC section 15.231) / 433.05 MHz to 434.79 MHz(EN)
	Operating frequency range:
	    433.6—434.2 MHz (FCC) / 433.6—434.2 MHz (EN)
	Maximum rated output power:
	    At transmitter 50 Ω RF output connector: 0 dBm
	    Effective radiated power (with no RF connector): -0 dBm
	Stepped variable with step size: ~3 dB
	    RF power: Minimum: -20 dBm / Maxmum: 0 dBm

GPS (optional):	**Antenna type:** Embedded 25x25x4mm active patch antenna **Position accuracy:** < 3m CEP (50%) without SA (horizontal) **Power supply:** DC 5V (DC 4.75V ~ DC 5.25 V) **Start:** Hot: 1s, typical / Warm: 34s, typical / Cold: 36s, typical
LAN:	**Connector:** standard RJ45 **Speed:** 10mbps / **Connection configuration:** DHCP (default)

Power Supply :	**Supply voltage range:** 8-30 VDC
	Backup battery:
	    Fixed and Fixed-in-Vehicle models: 6V 3.2 Ah or 6V 7.6 Ah
	    Portable model: 6V 7.6 Ah

External Power Supply Ratings :	**Input:** Voltage Range: 100 (-10%) VAC to 240 (+10%) VAC
	    Frequency Range: 47 Hz to 63 Hz
	    Power Consumption at no-load: 0.5W Max
	    In-rush Current: 50A Max
	    Current: 0.6A Max
	Output: Voltage: +12 V
	    Regulation: 11.4V-42.6 V
	    Load Range: 0-1.5 A

Dimensions (enclosure) & Weight:	**Height:** 203(H) x 217(W) x 87(D) mm **Basic CU** (No battery): 1290gr / **RC6-7.6:** 1175 g / **Chassis:** 640 g

Temperature:	**Unit:** Normal operation: -20°C to +50°C
	         Restricted operation: -25°C to -20°C and +50°C to +60°C
	         Storage: -30°C to +65°C.
	Battery: Charge: -15°C to 50°C
	         Discharge: -20°C to 60°C
	         Storage: -20°C to 50°C (fully charged battery)

Xsense® CU2™ Specification – 2G Version (including LAN connection)

GSM:	**Modem**: Telit GC864 module
	GSM features:
	    Quad-band: GSM/GPRS/EDGE- 850,900,1800,1900 MHz
	    Integrated SIM card reader for 1.8V or 3.3V
	Output power:
	    class 4 (2W) @ 850/900 MHz / class 1 (1W) @ 1800/1900 MHz
	    class 3 (0.25W) @ UMTS / class E2 (0.5W) @ EDGE 850/900
	    class E2 (0.4W) @ EDGE 1800/1900
	Sensitivity:
	    107 dBm (typ) @ 850/900 MHz / 106 dBm (typ) @ 1800/1900 MHz

ISM/SRD band:	**Assigned frequency range**
	    (FCC section 15.231) / 433.05 MHz to 434.79 MHz(EN)
	Operating frequency range:
	    433.6—434.2 MHz (FCC) / 433.6—434.2 MHz (EN)
	Maximum rated output power:
	    At transmitter 50 Ω RF output connector: 0 dBm
	    Effective radiated power (with no RF connector): -0 dBm
	Stepped variable with step size: ~3 dB
	    RF power: Minimum: -20 dBm / Maximum: 0 dBm

GPS (optional):	**Antenna type:** Embedded 25x25x4mm active patch antenna **Position accuracy:** < 3m CEP (50%) without SA (horizontal) **Power supply:** DC 5V (DC 4.75V ~ DC 5.25 V) **Start:** Hot: 1s, typical / Warm: 34s, typical / Cold: 36s, typical
LAN:	**Connector:** standard RJ45 **Speed:** 10mbps / **Connection configuration:** DHCP (default)

Power Supply :	**Supply voltage range:** 8-30 VDC
	Backup battery:
	    Fixed and Fixed-in-Vehicle models: 6V 3.2 Ah or 6V 7.6 Ah
	    Portable model: 6V 7.6 Ah

External Power Supply Ratings :	**Input:** Voltage Range: 100 (-10%) VAC to 240 (+10%) VAC
	    Frequency Range: 47 Hz to 63 Hz
	    Power Consumption at no-load: 0.5W Max
	    In-rush Current: 50A Max
	    Current: 0.6A Max
	Output: Voltage: +12 V
	    Regulation: 11.4V-42.6 V
	    Load Range: 0-1.5 A

Dimensions (enclosure) & Weight:	**Height:** 203(H) x 217(W) x 87(D) mm **Basic CU** (No battery): 1290gr / **RC6-7.6:** 1175 g / **Chassis:** 640 g

Temperature:	**Unit:** Normal operation: -20°C to +50°C
	    Restricted operation: -25°C to -20°C and +50°C to +60°C
	    Storage: -30°C to +65°C.
	Battery: Charge: -15°C to 50°C
	    Discharge: -20°C to 60°C
	    Storage: -20°C to 50°C (fully charged battery)

Popular	P/N	Model	LAN	Cellular (2G)	Cellular (3G)
	CU2 CL - 2G WH (KIT) - Combine	CU2 CL WH	•	•	
1	CU2 CL - 3G WH (KIT) - Combine	CU2 CL WH 3G	•		•
	CU2 CL - 3G P (KIT)	CU2 Cell Portable 3G	•		•