

What is Securitex Industrial Remote Controller SIRC272W-IG 3G Remote Controller Terminal.

Overview

The 3G M2M RCT (Remote Control Terminal) SIRC272W-IG 3G system that is incorporated with the QUECTEL UC15 module (Or WCDMA/CDMA2000) and ARM® Cortex™ 32 Bit RISC Core. It is a multi Isolation I/O port remote control terminal unit. It is use mainly for remote control of critical off site equipment and remote data acquisition, Base Transceiver Stations monitoring, access control, ATM, generator monitoring, Pump station monitoring, weather station monitoring and many other applications. The SIRC272W-IG 3G M2M RCT is designed as a cost effective remote control system alert device. It monitors up to 8 digital inputs and 4 solid relay outputs and 6 Analogue inputs and power status, onsite temperature and humidity. All of the inputs and outputs are isolated. User-defined SMS is sent to pre-configure mobile phone numbers when a pre-defined alarm condition happens. These pre-configured mobile phone numbers can belong to technicians or engineers anyone who are responsible in handling corresponding alarms. With the aid of this 3G M2M RCT, the alarm condition brings attention to in-charge personnel immediately. Besides it allows those mobile phone users to trigger any relay output by using SMS. The output can be connected with alarm indication device, such as alarm, and others. Moreover, the 3G M2M RCT can be used as a smart PLC (Programmable Logical Controller) by the interlock function and be used as a remote access control, the authorized users can open the gate or turn on the machine with a free of charge call at specified time. The 3G M2M RCT supports Modbus TCP, TCP/UDP protocol, data transparent transmission via RS232 /RS485 ports over GPRS/3G network.

Some of the application areas could be (the list is however not limited to these application areas)

Security systems. Irrigation & fire alarm systems. Building surveillance and control. Home & garden automation projects. Heating, lighting & climate control Remote monitoring and device/equipment control. Medical equipment monitoring. Safety System monitoring and control. Plant and Refinery systems control & monitoring etc.

Wide coverage of **3G networks** and the provision of **GPRS connectivity** have made it possible to interconnect systems wirelessly. SECURITEX SIRC272W-IG exploits the benefits of this wireless technology and gives you control of your remote units from any part of this World. All-in-all SECURITEX SIRC272W-IG is an advanced, effective and an economical solution for fulfilling your needs of remote monitoring and control applications.

Specification

Item	Reference Scope
DC Power supply	Standard adapter: DC 12V/1.5A Range 9-36VDC
Power consumption	Standby:12V/70Ma; Working Max.: 12V/300Ma
3G Frequency	3G(WCDMA or CDMA2000)
Transmit power	Class 4 (2W) at EGSM 900 and EGSM 850 Class 1 (1W) at GSM 1800 and GSM 1900
GPRS connectivity	GPRS multi-slot class 10
GPRS Data Transmission	GPRS data downlink transfer: max. 85.6 kbps GPRS data uplink transfer: max. 42.8 kbps Coding scheme: CS-1, CS-2, CS-3 and CS-4
TCP/IP stack	TCP,UDP
SIM interface	Supporting 3V SIM Card
External antenna	SMA Antenna interface, 50 Ohm
Alarm Phone Numbers	10 telephone numbers for SMS Alert and Dial while alarm.
Serial Interfaces	1 USB Port, 1 RS232, 1 RS485 with ±15KV ESD Protection.
Protocols	SMS, GPRS UDP,TCP, Modbus TCP
Digital Inputs	8 Digital inputs, dry contact or wet contact. Logic level: 0~0. 5V or short circuit treated as close, +3~30V or open circuits treated as open. One of the input can be used as counter, sampling frequency is 1Khz;
Analog Inputs	6 analogUE inputs, 12bits resolution, supports 0-5V, 0-20Ma, 4-20Ma output transducers;
Temp. & Hum Inputs	AM2301, Range: Temperature: -40°C to +80°C, Humidity: 0~100%RH;
Relay Outputs	4 Solid Relay outputs, Rated Capacity: 5A/30VDC,5A/250VAC
Power Outputs	2 Ports, for external device (Transducers or detectors or sensors).
Memory Capacity	Internal TF Card inside, can save 100000 historical events.
Backup Battery	3.7V 1200mAH, standby 8-16hours.
Temperature range	-10~+70 °C
I/O Isolation	Electromagnetic
Power input/Out	Over voltage protection and phase-reversal protection
Humidity range	Relative humidity 95% (condensation free)
Exterior dimension	202mm*113mm*31mm(external Maximum size)
Net Weight	1000 g



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