

UHF Narrow band Command Control Radio unit

CCR-STD-302

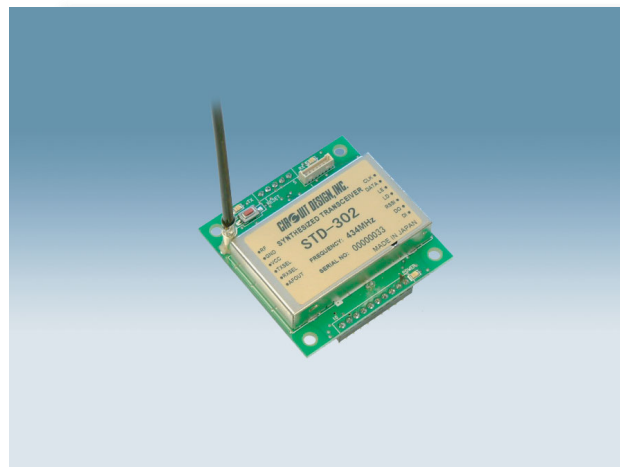
CCR (Command Controlled Radio unit) is a radio unit equipped with Circuit Design's radio module on UART interface board. The on board CPU interfaces with external CPU through UART and controls RF module equipped. Simple dedicated commands are provided for radio module control. Without needing to be aware of control of radio component, the user can concentrate on designing the transmitting and receiving protocols for the data using the commands. Operating frequency is in 434MHz ISM band or 869MHz European harmonized band. High performance narrow band radio module mounted on the board complies with EN300 220 European standard.

Features

- UART interface
- Low power and long range radio
- Simple command control
- RF designed UART interface board
- Narrow band multi channel (25kHz channel span)
- RS232 interface with UART-RS232 conversion board

Applications

- Serial data transmission
- Telemetry
 - Monitoring system for environmental data
- Telecontrol
 - Remote control systems for FA machine



CCR-STD-302 434MHz (Transceiver)

Item	Specification
Transceiver module	STD-302 434MHz
Frequency	433.200 to 434.775 MHz
Number of RF channels	64
RF power	10 mW
Receiver module sensitivity	-119 dBm
Radio data speed	9600 bps
Supply voltage	3.3 to 5.0 V
Supply current	TX: 45 mA RX: 30 mA
Operating temperature range	-10 to +55 degree C
Dimensions	53 x 52 x 15.1 mm
Weight	38 g

CCR-STD-302 869MHz (Transceiver)

Item	Specification
Transceiver module	STD-302 869MHz
Frequency	868 to 870 MHz
Number of RF channels	80
RF power	5 mW
Receiver module sensitivity	-116 dBm
Radio data speed	9600 bps
Supply voltage	3.3 to 5.0V
Supply current	TX: 43mA RX: 30mA
Operating temperature range	-10 to +55 degree C
Dimensions	53 x 52 x 15.1 mm
Weight	38 g

Serial interface

Item	Specification
Synchronization	Asynchronous / UART
Data speed	1200 / 2400 / 4800 / 9600 / 38400 / 57600 bps
Flow control	RTS / CTS hardware control
Parameter	Data length : 8 bit / Parity: No / Stop bit: 1
Data buffer	TX: 255 Byte RX: 255 Byte

Specifications are subject to change without prior notice

All CCR units have a common interface irrespective of the radio module, different CCR units can be mounted on the same user circuit board

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