

Tyco Security Products

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Power-G Modem Transceiver Module Operational Description

The Power-G Modem Transceiver is OEM card designed to be integrated into a 3rd party control panel.

The Power-G Modem Transceiver is connected to the 3rd Host using system connected with the following line

- 1. 3.3V VCC
- 2. UART RX
- 3. UART TX
- 4. GND
- 5. RST
- 6. Boot0/System_INT_N
- 7. USB N
- 8. USB M

The Digital Part

Powered by 3.3V

Used Cortex STM32F103 CPU and operated with 12MHz crystal UART RX & TX is used for communication between the chipcon and Cortex.

The Radio Part

The RF part is powered by regulated 3V.

The transceiver is based on a chipcon (Texas Instrument) CC1110 IC integrating in a signal component the Transmitter, Receiver and Microcontroller functionality.

In addition to the RF IC the design contain also

- RF Switches for TX,RX port separation
- LNA based on single RF transistor
- SAW band pass filter
- PA based on a single or double stage discrete RF amplifier
- RF Specification

o Operation band ;902MHz-928MHz

o Number of operations channels: 50

o Modulation type: GFSK 0.5BT

Baud rate :50kbpsDeviation :25KHz

o RX Bandwidth: 135KHz