

Technical description, CRN – 0102, CRN Public Network Transceiver Model # AP-4700

Refer to schematic diagram CRN - 0102

CRN Public Network Transceiver Model # AP-4700 provides wireless transmission of four contact closure or contact open inputs. The heart of the product is a RIM 801D radio transceiver module plugged into jack J1. 12vdc power is supplied at TB-1 screw terminal 1 & 2. An internal analog voltage regulator, U1 provides 7.2vdc for operation of the modem. Additionally, a 3.3 analog regulator, U2 powered from the 7.2vdc is used for all other circuits and to set the RIM 801D in the “on” condition. Input contacts are connected to terminal strip TB-2 screws 1 through 3 and TB-3 screw terminal 1. These inputs are conditioned by a resistor network and sent to gate U3 where they are level shifted to meet the input requirements of the microprocessor U4. Microprocessor U4 contains the logic to send appropriate serial signals to the modem at J1. A high security option supplies a grounded output whenever the modem is in contact with the radio network. LED D1 provides a visual indication of radio network coverage. LED D5 provides a visual indication that a siren(ac) signal is present at Input #1, TB-3 terminal 1.