Operational Description:

Operating Temperature: +60°C to (-15°C)
Dimensions: 6" x 3"  1.25"  (153mm x 73mm x 35mm)

       CORA modular data port is a two pcb solution on-line monitoring device that capture transaction activities of bottling and full-service vending machines. This information can then be transmitted through a cellular radio to a distant host through the on-board **Telit Communications LE910B1 SA** (**FCC ID:RI7LE910B1SA**)  **4G, CAT 1 radio module**.
       Within the vending application the modular data port monitors the machine Multi-Drop Buss (MDB) interface to capture sales information for transfer to a distant server. When CORA is integrated with a credit card reader it enables cashless authoring & settlement in support of vending transactions over cellular connection. CORA can also support token cashless mobile transaction through the onboard **blue tooth low energy radio QualComm model CSR1010**.

The two radio solution is designed so that the Cellular radio module resides on the Control PCB and the BLE radio modul**e** resided on the Utility PCB to reduce the likely hood of interference. The PCB's are interconnected via multi pin interface header.

The LE910B1 SA transmits on cellular bands FDD LTE 2, FDD LTE 4 & FDD LTE 12. The antenna provided Genesis has a 6' RG-58 coax cable with SMA connector on the radio side. It is impedance matched 50Ω with the radio

The Qualcomm CSR1010 transmits at 2.4 GHz, BLE. The antenna is a PCB trace antenna that is impedance matched 50Ω with the radio.

CORA modular data port receives 24V from its host vending machine to power the system.

Tune Up:

The Telit Wireless Cellular 4G radio module LE910B1 SA is a self-contained, software controlled radio module and there is no tune up required as a result of integration into CORA.
Max. Output power: 0.2W into 50Ω.
Fq. Tollerance: 1.0 PM


The QualComm Bluetooth radio module is a self-contained radio module and there is no tune up required as a result of integration into CORA.
Max. Output power:  7.943mW into 50Ω.