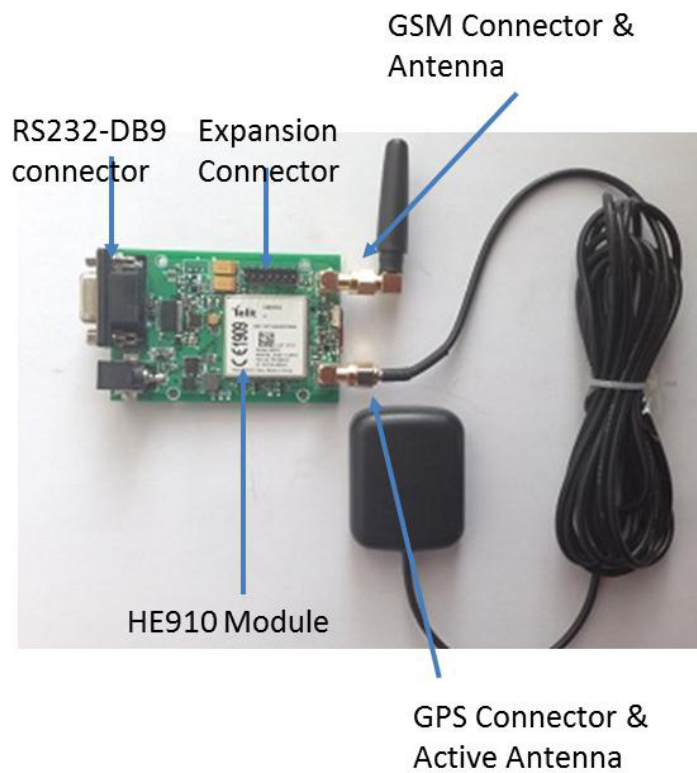


Telit xE910 MODEM



1. Introduction

This document talks about details of Telit xE910 family based modems.

Telit offers its customers a form factor and family concept. Part of this concept is the xE910 family of wireless modules featuring a single, compact form factor that is interchangeable on any regional cellular network, delivering ubiquitous, cost-effective coverage for M2M applications and consumer electronics devices worldwide.

Based on a Land-Grid-Array (LGA) form factor with a footprint of just 795mm² and a total size of 28.2 x 28.2 x 2.2mm, the Telit xE910 family's uniform design gives customers the ability to choose between global or regional cellular technologies depending upon the location and requirements of a specific application for optimum data rates and module costs.

Supporting GSM/GPRS, UMTS/HSPA+ and CDMA/EV-DO cellular technologies, the xE910 family also allows applications to be easily upgraded, such as when migrating from 2G to 3.5G, while maintaining the core design of an application or device throughout its lifecycle. This allows M2M developers and device manufacturers to easily customize their applications by enabling simple module integration and upgrades.

Atoll xE910 modems are optimum, ready to use solution for customers of Machine to Machine (M2M) applications. This module is based on Telit xE910 family of modules. Atoll provides optional battery charging feature and GPS support for selected modules.

These modems can also be used as ideal evaluation platform to evaluate xE910 modules from Telit.

Some key application areas include:

- Industrial M2M communications
- Remote Monitoring and Control
- Point of Sale Terminals
- Metering
- Warehousing
- Logistics and Freight Management

.Note: There is optional rugged, yet lightweight aluminum enclosure available for this modem.

2. CST-xE910-MODEM General Features:

- Based on Telit xE910 family of Modules
- Currently supported modules are
 - HE910: 3G UMTS, HSPA+ with GPRS/EDGE and optional GPS
 - UE910: 3G UMTS, HSPA modules
 - CE910_SC: Single Band CDMA 1xRTT module.
 - GE910: GSM/GPRS modem with USB 2.0 interface.
- Wide power input range from 9 to 24 Volt
 - Ideal for automotive applications.
- USB Interface with miniUSB connector.
 - This is the primary data transfer interface to xE910 module
- RS232 interface with DB9 connector
 - This includes flow control pins also.
- All key control PINS of the module in DB9 connector
 - DCD PIN of xE910 at RS232 level to give server connection status.
 - RING PIN of xE910 at RS232 level to give notification of SMS/Call.
 - MODULE_RESET pin from xE910 at TTL(3.3V) level to REST the module
 - ON_OFF pin of the xE910 module at TTL level
- Optional battery charger feature
 - Ideal for remote monitoring
- 14 pin Expansion connector with following interfaces
 - 3 GPIOs
 - SPI Interfaces
 - Digital Voice Interfaces (DVI)
- Antenna connector options
 - SMA and uFL options
- Analog voice input and output connectors for relevant modules.
- Dimension
 - 50mm x 75 mm

3. xE910-XX-MODEM ordering Info

3.1 Product Variants

There are many variants of the module available:

- Standard modem with xE910 modules varieties are:
 - CST-HE910-XXX-MODEM (XXX is for different variation of HE910-EUD, EUG etc).
 - CST-CE910-SC-MODEM
 - CST-GE910-XX-MODEM
- CST-xE910 with battery charging interface: CST-xE910-XX-MODEM-BC