Siretta

Enabling Industrial IoT

ZETA Modem Starter Kit
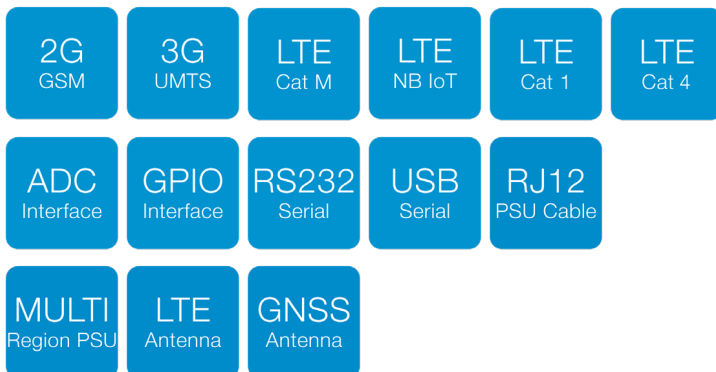Evaluate IoT Cellular Performance

General Description

The ZETA Modem Starter Kits have been developed to partner perfectly with the ZETA family of industrial IoT modem solutions. The starter kits provide all of the accessories that you need to get your modem up and running including antennas, serial cables, multi region PSU and power cables. The ZETA modems are a family of low power industrial cellular communication devices with general purpose interfaces.

The ZETA family of modems connect equipment to the LTE Cat 4 / LTE Cat 1 / LTE Cat M / LTE Cat NBIoT networks and provide backwards compatibility to the existing 3G / UMTS and 2G / GSM cellular networks. The modems operate in a low power state which makes them ideal for use in industrial IoT applications today and for long term future developments.

The unique features of the ZETA family of modem devices are available across the entire range. The accessories in the starter kit are compatible with all members of the ZETA modem family, but please check individual modem datasheets to ensure you order the correct starter kit to evaluate GPIO and GNSS.

Features

2G GSM	**3G** UMTS	**LTE** Cat M	**LTE** NB IoT	**LTE** Cat 1	**LTE** Cat 4
ADC Interface	**GPIO** Interface	**RS232** Serial	**USB** Serial	**RJ12** PSU Cable	
MULTI Region PSU	**LTE** Antenna	**GNSS** Antenna			

Featured Components

The starter kit contains the following components with common interfaces for each ZETA model:

- » SMA Male Cellular Antenna
- » RJ12 Power Connector Cable
- » DB9 RS232 to USB Serial Interface Cable (1.0m)
- » USB Serial Interface Cable (0.5m)
- » Multi-region Mains PSU (12V @ 2A)
- » SMA Male GNSS Antenna (Included on ZETA-GEP models)

Rev 1.0

General Features

» Standard components to setup your modem

» Compatible with all members of the ZETA modem family

» Quickly connect your device to target equipment

» Evaluate the cellular network with your application

» Evaluate the real time performance of LTE in the field

» Evaluate the real time performance of GNSS in the field

» Components optimised for high performance

» Ensure you have a good starting point for your evaluation

» Quickly swap between different cellular technologies

» Starter kit is compatible with global interfaces

» Antenna interface allows evaluation of the intended application antenna in the field

10-way Interface Header (GPIO)

The ZETA-NEP and ZETA-GEP models include a GPIO 10-way multi-function header which offers the following interfaces to the user:

» 3 x General Purpose Inputs (0V-42V tolerant)

» 2 x General Purpose Outputs (0V-42V @ 1A)

» 1 x Analogue to Digital Interface (0-42V range)

» 1 x RS232 debug serial port (3-wire interface)

» 1 x Peripheral Power Interface / Output Supply (Vcc)

Environmental

» Extended Temperature Range: -40 to +85 deg C

» Material: ABS Plastic

Starter Kit Benefits

» Setup your Siretta modem to evaluate performance

» Get up and running quickly with the correct accessories

» Test different use case scenarios and swap out components

» Trust on known working accessories to focus on your development

» Evaluate different network technologies using existing equipment

» Verify proof of concept before applying to end application

Approvals and Compliance

» RoHS

» WEEE

» REACH

ZETA Modem Advantage

The ZETA family lends itself to rapid proof-of-concept developments with minimal investment, providing fast time to market and maximum scalability offering intelligence and decision making at the cloud edge.

In addition the ZETA industrial modems have built up a solid reputation as a low cost, low power, reliable and dependable modem which has been established over a number of years with many industry leading industrial customers.

ZETA Family Starter Kit Accessories

ZETA Model	LTE Category	Multi-region PSU	Cellular Antenna	RS232 to USB	USB Seial Cable	RJ12 PSU Cable	GNSS Antenna
ZETA-NLP-LTEM (GL)	Cat M / Cat NBIoT	Yes	Yes	Yes	Yes	Yes	
ZETA-NLP-LTE1 (EU)	1	Yes	Yes	Yes	Yes	Yes	
ZETA-NSP-LTE1 (EU)	1	Yes	Yes	Yes	Yes	Yes	
ZETA-NEP-LTEM (GL)	Cat M / Cat NBIoT	Yes	Yes	Yes	Yes	Yes	
ZETA-NEP-LTE4 (EU)	4	Yes	Yes	Yes	Yes	Yes	
ZETA-GEP-LTE4 (EU)	4	Yes	Yes	Yes	Yes	Yes	Yes
(GL) = Global Region	(EU) = European Region	(USA) = American Region						