imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



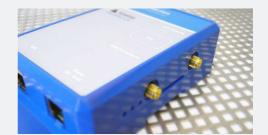
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











- » Cellular Modems
- » Antenna Systems
- » RF Cable Assemblies
- » RF Adaptors & Connectors

Advanced Wireless Products



Siretta

DESIGN, MANUFACTURE

& SUPPLY

the widest range of quality antennas for the electronics market along with best range of industrial modems under one name. All at a competitive price point and with solid expertise to offer our customers..







A Siretta

We now supply some of the largest wireless customers with antennas, cables and M2M modems – many built to customer specification in conjunction with detailed design advice.

With 20 years' experience in the wireless M2M telemetry market, we design and supply to customer's applications on a global basis. We focus on frequencies within the 76MHz to 5.8GHz range encompassing HF, VHF, ISM, GSM/GPRS, 3G/UMTS, 4G/LTE, and GPS frequencies.



Advanced Design Products

To meet the increasing need for wireless M2M connection, Siretta offer a range of technically advanced 2G / 3G / 4G modems, providing solutions for a wide range of applications. Designed and manufactured by us, we have taken customer requests and turned these into cutting edge, finished product modems for the 2G / 3G / 4G networks.

The functionality within the ZEST, ZETA, ZOOM, ZULU and ZEUS is significantly more advanced than most other modem manufacturers today, delivering excellent technical performance and great value for money.



Siretta

Similarly, we have also have a range of 2G / 3G signal testers to help evaluate signal strength and antenna performance in the field. These are now used by many people and organisations for evaluating and datalogging reception of 2G and 3G networks in specific locations.



Customer Services

At Siretta we have a dedicated team of design engineers all available to help customise our products to your needs. Our experienced technical and sales staff are all contactable at our offices in Reading UK to discuss your application, requirements and suitable solution.

For more information contact: +44 (0)118 976 9014

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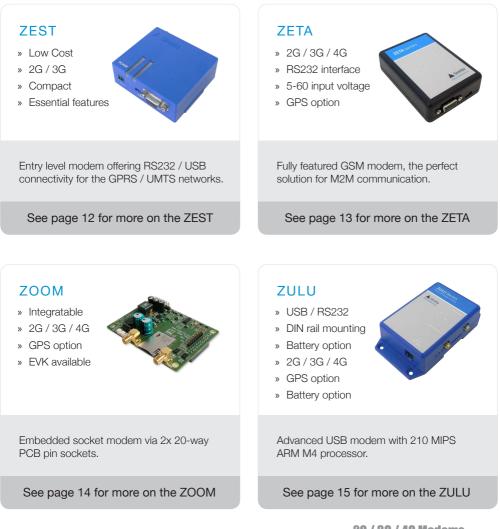
About Modems and Testers

Machine to machine (M2M) connectivity and the 'Internet-of-Things' is dramatically changing the way that equipment and remote devices communicate, bringing wide reaching benefits in system function and efficiency. Wireless modems are at the heart of this revolution, enabling almost any application or device to become wireless, and in doing so reap the amazing benefits that M2M connectivity can offer.

Siretta is a leading supplier of wireless modems, offering a broad selection of products for this exciting market development. Fully designed and developed in house, we have taken our many years of wireless experience and produced a range of cutting edge products, offering excellent technical performance and great value for money.

ZETA series

The functionality within our modems is some of the most advanced on the market today, with a multi-level product range providing innovative solutions for all sectors and applications. From the entry level ZEST to the powerful Ethernet enabled ZEUS, our products combine ease of use and advanced features, with robust reliable performance for the most demanding of environments. With the added benefit of local design and engineering support from our UK office, Siretta is your ideal wireless connectivity partner.



10

2G / 3G / 4G Modems



For more information contact: +44 (0)118 976 9014

ZEST

Low Cost 2G / 3G Modem

- » RS232 and USB* serial port interface
- » Python script for customer application development
- » GPRS EU coverage
- » Dual band 900 / 1800MHz
- » Supply voltage capability 6-18 / 21V
- » AT command driven
- » Wall or DIN rail mountable
- » Compact size
- » 105 grams weight



The ZEST is an entry level industrial cellular modem, with serial RS232 and USB* ports, offering key functionality within a rugged plastic enclosure. The ZEST is ideal for M2M applications requiring a simple but reliable modem for GPRS data connection, using either a standard RS232 or USB* interface. The USB port is used for sending / receiving data, but in addition can be used for supplying power. The ZEST is a dual band GPRS modem providing EU coverage, for the EMEA and APAC regions. Further configurations including global quad band GPRS and 3G / UMTS are also available on request.

Despite its highly competitive price, the ZEST is built to the same exacting standards as the rest of the Siretta modem family. The ZEST will be a popular choice for many situations requiring just GPRS connectivity, and the flexible 6-18V power supply and a -40°C to +85°C operating temperature range allow the product to be used in most industrial applications.

* USB data port is only available on UMTS model.

ZETA

Fully Featured 2G / 3G / 4G Modem

- » RS232 serial port interface
- » USB serial port interface
- » GPRS global coverage
- » GPRS class 10
- » 5 GPIO lines
- » Wide supply voltage capability 5-42 / 60V
- » AT command driven
- » Compact size
- » 101 grams weight



The ZETA range of GPRS modems offer advanced performance at a low cost, with a convenient RS232 interface. The range is suitable for a wide range of applications, and has been extensively tested for robust reliable performance. With an installation base at many large organisations, and in public spaces, the ZETA has built up a solid reputation for low cost, dependable performance over a number of years.

Capable of operating in the most demanding environments, the ZETA modems are ideally suited to M2M applications including remote monitoring and vehicles. A high level of cellular functions in a compact plug 'n' play housing allow simple integration into your system. With its small size and advanced set of features it fits perfectly into a wide range of devices and applications.

ZOOM

Embedded 2G / 3G / 4G Socket Modem

- » TTL or RS232 serial port interface
- » USB serial port interface
- » GPRS or 3G / UMTS global coverage
- » Available with GPS receiver
- » 10 GPIO lines
- » Wide supply voltage capability 5-42V
- » AT command driven
- » Compact size
- » Simple mounting by 2 x 20 way connectors
- » EVK development board available



The ZOOM series of GPRS and 3G / UMTS socket modems are fully designed, developed and ready to integrate into your equipment, easily, and with a low overall cost.

The ZOOM series answers the need for an economic, fully functional and tested cellular modem platform that can be easily incorporated into your equipment with little knowledge of modem technology. With a highly plug 'n' play design, the ZOOM offers a common platform across the range, enabling all technologies to be evaluated easily.

The ZOOM socket modems are designed to be plugged onto your own PCB via standard 2 x 20 way connectors. The two connectors incorporate TTL or RS232 interfaces, USB interface, 10 GPIO lines and power. The ZOOM series also has an unusually wide power supply capability of 5-42V, enabling compatibility with a wide range of applications.

ZULU

Advanced 2G / 3G / 4G USB Modem with 210 MIPS ARM Processor

- » USB serial port interface
- » RS232 serial port interface
- » GPRS, 3G / UMTS or 4G / LTE coverage
- » Available with GPS receiver
- » ARM Cortex M4 32bit processor
- » 10 GPIO lines
- » Wide supply voltage capability 5-42V
- » ADC, CAN, 1-wire and I²C interfaces
- » DIN rail mountable
- » 2000mAh battery option
- » EVK development board available
- » Convenient 36 way multi interface connector

The ZULU range of modems are amongst the most advanced and capable available today. The range is available as two main versions - with or without GPS. Further options include a 2000mAh battery and an upgrade of flash memory to a total of 128Mbit. The ZULU range can be used as a simple modem, or with application software within the GPRS / UMTS / LTE module. But its real strength, for the user, is as a comprehensive computing platform using its ARM Cortex M4 32bit processor connected to the wireless engine - all in one package. The ZULU design has been extensively tested and represents amazing value as a GPRS / UMTS / LTE connected powerful 32bit computing device.

The ZULU modems have an ARM Cortex M4 32bit processor as standard, independent of the wireless module, for customers to develop their software on. The ZULU has both USB and RS232 serial ports with 10 GPIO lines as standard. The ZULU is housed in a tough plastic enclosure that is either screw or DIN rail mountable.



ZEUS

Advanced 2G / 3G / 4G Ethernet Modem Router

- » 10/100 Ethernet interface
- » RS232 serial port interface
- » GPRS, 3G / UMTS or 4G / LTE coverage
- » Available with GPS receiver
- » ARM Cortex M4 32bit processor
- » 10 GPIO lines
- » Wide supply voltage capability 5-42V
- » ADC, CAN, 1-wire and I²C interfaces
- » DIN rail mountable
- » 2000mAh battery option
- » EVK development board available
- » Convenient 36 way multi interface connector

The ZEUS range of 3G / UMTS modems are amongst the most advanced and capable modems available today. The range is available as two main versions - with or without GPS. Further options include a 2000mAh battery and an upgrade of flash memory to a total of 128Mbit. The ZEUS range can be used as a simple modem or with application software within the UMTS module. But its real strength, for the user, is as a comprehensive computing platform using its ARM Cortex M4 32bit processor connected to the UMTS engine - all in one package. The ZEUS design has been extensively tested and represents amazing value as a UMTS connected powerful 32bit computing engine.

The ZEUS modems have an ARM Cortex M4 32bit processor as standard, independent of the wireless module, for customers to develop their software on. The ZEUS has an Ethernet port, an RS232 serial port and 10 GPIO lines as standard. The ZEUS is housed in a tough plastic enclosure that is either screw or DIN rail mountable.



5N4953

2G / 3G Cellular Signal and Network Analyser

- » 2G / 3G coverage versions
- » Summary feature for consolidated view of network data
- » Large easy to read LCD display
- » Operates without SIM
- » Logical menus and operation
- » Long life rechargeable battery
- » USB battery charger included
- » Rugged and durable construction
- » Supplied in a hard carrying case



The SNYPER is a high performance signal and network analyser for the 2G / GPRS and 3G / UMTS networks, with a host of important features for the busy engineer and installer. Building on our many years of signal tester experience, the new SNYPER utilises the same design platform used in our advanced wireless moderns to provide market leading performance and functionality, at a highly competitive price.

Used as an invaluable tool for the surveying and commissioning of wireless systems, the SNYPER can perform a number of different functions to determine optimum antenna placement, performance of existing installations or choice of network operator. As an example, the SNYPER can determine the strength of a particular network signal, or can review all available network signals in the area of use, and rank these in order of strength through its summary page. The summary page is an incredibly powerful feature allowing network operator choice to be made based on both signal strength and number of usable cells, with all data visible concurrently. The SNYPER also has a number of signal strength thresholds within the summary page, providing a more concise view where only signals above a certain dB level are of interest.

ZOOM-EVK Board

Modem Development for ZOOM

- » Development platform
- » Plugs directly onto ZOOM module
- » Ideal prototyping kit



The ZOOM-EVK evaluation and development board is the perfect way of getting to know the ZOOM series of socket modems, and building an application for integration into your equipment. The ZOOM modem plugs directly onto the EVK providing convenient access to all of the ZOOM interfaces via the EVK's D-Sub, USB and terminal block connectors. This includes the TTL, RS232 and USB interfaces, allowing you to control the modem from a connected PC or embedded micro controller.

The ZOOM-EVK board comes complete with a multi region power supply, RS232/ USB cables, our Delta 2A GSM antenna and the Mike 3A GPS antenna, providing all the components for a working system - just add your choice of ZOOM modem.

ZULU / ZEUS-EVK Board

Modem Development for ZULU / ZEUS

- » Development platform
- » Includes accessories and antennas
- » Ideal prototyping kit



The ZULU/ZEUS-EVK evaluation and development board is the perfect way of working with the ZULU/ZEUS modems, and developing an application within the ARM Cortex processor. The EVK provides simple and convenient access to the ZULU/ZEUS interfaces through standard D-Sub and terminal block connectors.

The ZULU/ZEUS-EVK board also comes complete with a multi region power supply, 36way interface cable, RS232/USB (ZULU) or RS232/Ethernet (ZEUS) cables, a JTAG programming cable, our Delta 2A GSM antenna and the Mike 3A GPS antenna, providing all the components for a working system - just add your choice of ZULU/ZEUS modem.

Product Comparison

Matrix of Siretta Modems

	Soft	ware	Interfaces											Frequencies						
														2G GP		3G	/ UM	ITS	4G / LTE	
Standard Feature o Option	IP Stack	AT Commands	RS232	USB	Ethernet	Ш	ADC	DAC	CAN	1-Wire	I2C	GPS		900 / 1800MHz	850 / 1900MHz	850 / 1900MHz	1700MHz	900 / 2100MHz	800 / 1800 / 2600MHz	
ZEST-N-GPRS (EU)	•	•	•	•	-	-	-	-	-	-	-	-		-	•	-	-	-	-	
ZEST-N-UMTS (EU)	•	•	•	•	-	-	-	-	-	-	-	-		-	•	-	-	•	-	
ZETA-N-GPRS	•	•	•	-	-	-	-	-	-	-	-	-		•	•	-	-	-	-	
ZETA-G-GPRS	•	•	•	-	-	-	-	-	-	-	-	•		•	•	-	-	-	-	
ZETA-N-UMTS	•	•	•	•	-	-	1	-	-	-	-	-		•	•	•	•	•	-	
ZETA-G-UMTS	•	•	•	•	-	-	1	-	-	-	-	•		•	•	•	•	•	-	
ZOOM-N-GPRS	•	•	-	•	-	•	1	-	-	-	-	-		•	•	-	-	-	-	
ZOOM-G-GPRS	•	•		•		•	1	-		-	-	•		•	•	-	-		-	
ZOOM-N-UMTS	•	•		•		•	1	-		-	-	-		•	•	•	•	•	-	
ZOOM-G-UMTS	•	•		•		•	1	-		-	-	•		•	•	•	•	•	-	
ZOOM-N-GPRS-RS232	•	•	•	•		-	1	-		-	-	-		•	•	-	-		-	
ZOOM-G-GPBS-BS232	•	•	•	•		-	1	-		-	-	•		•	•	-	-		-	
ZOOM-N-UMTS-RS232	•	•	•	•		-	1	-		-	-	-		•	•	•	•	•	-	
ZOOM-G-UMTS-RS232	•	•	•	•		-	1	-		-	-	•		•	•	•	•	•	-	
ZULU-N-GPRS	•	•	•	•	-	-	2	2	•	•	•	-		•	•	-	-	-	-	
ZULU-G-GPRS	•	•	•	•	-	-	2	2	•	•	•	•		•	•	-	-	-	-	
ZULU-N-UMTS	•	•	•	•	-	-	2	2	•	•	•	-		•	•	•	•	•	-	
ZULU-G-UMTS	•	•	•	•	-	-	2	2	•	•	•	•		•	•	•	•	•	-	
ZULU-N-LTE (EU)	•	•	•	•	-	-	2	2	•	•	•	-		•	•	-	-	•	•	
ZULU-G-LTE (EU)	•	•	•	•	-	-	2	2	•	•	•	•		•	•	-	-	•	•	
ZEUS-N-GPRS	•	•	•	-	•	-	2	2	•	•	•	-		•	•	-	-	-	-	
ZEUS-G-GPRS	•	•	•	-	•	-	2	2	•	•	•	•		•	•	-	-	-	-	
ZEUS-N-UMTS	•	•	•	-	•	-	2	2	•	•	•	-		•	•	•	•	•	-	
ZEUS-G-UMTS	•	•	•	-	•	-	2	2	•	•	•	•		•	•	•	•	•	-	
ZEUS-N-LTE (EU)	•	•	•	-	•	-	2	2	•	•	•	-		•	•	-	-	•	•	
ZEUS-G-LTE (EU)	•	•	•	-	•	-	2	2	•	•	•	•		•	•	-	-	•	•	

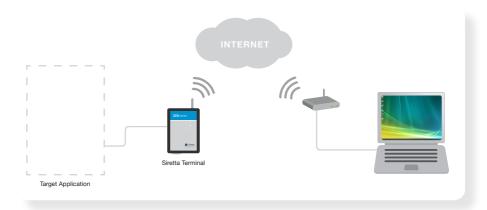
		GPIO				Power							
ARM Cortex M4 Processor	GPIO (Input/Output)	GPIO Input Voltage	GPIO Output Voltage	0.6A Relay	Dimensions L \times H \times D (mm)	Weight	Accelerometer	Operating Temperature	DIN Rail Mounting		Power Supply	2000mAh Battery	USB Charging *
-	-	-	-	-	75 x 85 x 28	105g	-	-40 to 80°C	•		6-18V	-	-
-	-	-	-	-	75 x 85 x 28	105g	-	-40 to 80°C	•		6-18V	-	-
	_	051/	0.01/		00 07 00	101		10.1 05:0			5 001/		
-	5	35V	3.3V	-	93 x 67 x 28	101g	-	-40 to 85°C	-	_	5-60V	-	-
-	5	35V	3.3V	-	93 x 67 x 28	101g	-	-40 to 85°C	-	_	5-60V	-	-
-	5 (4/1)	35V	0-42V	-	93 x 67 x 28	101g	-	-30 to 80°C	-	-	5-60V	-	-
-	5 (4/1)	35V	0-42V	-	93 x 67 x 28	105g	-	-30 to 80°C	-		5-60V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
-	10 (4/6)	3.3V	3.3V	-	85 x 60 x 24	54g	-	-30 to 80°C	-		5-42V	-	-
										_			
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	125g	•	-30 to 80°C	•		5-42V	0	•
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143q	•	-30 to 80°C	•		5-42V		
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143g	•	-30 to 80°C	•		5-42V 5-42V	0	
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143g	•	-30 to 80°C	•		5-42V 5-42V	0	
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143g	•	-30 to 80°C	•		5-42V 5-42V	0	
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143g	•	-30 to 80°C	•		5-42V	0	
•	9 (5/4)	35V	0-42V	•	134 x 74 x 33	143g	•	-30 to 80°C	•		5-42V	0	
	5 (3/4)	000	0-42V	•	104 × 14 × 00	1409		-00 10 00 0			J-4∠V	0	

2G / 3G / 4G Modems

V-Link232 Software

Cellular Wireless Virtual Cable Replacement

Any Siretta cellular terminal with V-Link232 software becomes an intelligent GPRS / UMTS, RS232 / USB cable replacement solution, ideal for wirelessly connecting remote equipment.



V-Link 232 has been designed to create an out-of-box usable wireless replacement to an RS232 / USB cable of any length.

V-Link232 enables any Siretta modem to be able to operate as a stand-alone modem without the need for any intelligence external to the modem - thus enabling the modem to manage the connection of remote equipment to a central location for its management of control.

Applications where there is no host intelligence or where the user needs to control the modem remotely will find the unique and simple to operate V-Link232 software indispensable.

V-Link232 enabled modems can also be used in multiple remote access applications.

V-Link232 is available as an option on any of the Siretta modem ranges.



Flexible with modes of operation

The V-Link232 is extremely flexible and operates in one of two modes as desired - Client or Server mode. It also has some great additional features, that, in all, make V-Link232 virtual cable connection even more compelling.

In both modes any data received to the serial port of a V-Link232 enabled terminal will be forwarded over the GPRS network to the IP / port specified, and any data received from the server via the GPRS network will be forwarded to the serial port of the modem. This then creates a virtual cable replacement between two V-Link232 enabled modem endpoints placed anywhere and does not require the connected equipment to manage the connection. This extremely powerful feature of the V-Link232 enabled modems can be found in many installed applications as, the V-Link232 features, coupled with robust build of the Siretta modem range, make a compelling overall solution.

Client Mode

In the Client mode V-Link232 acts as a client, simply connecting the modem to a remote server at a pre-specified IP address and port. It can either be setup as 'always connected', or to connect only when data is received on the serial port. Once set up, the modem with V-Link232 need no further intervention to remain in full client mode.

Server Mode

In the Server mode V-Link232 acts as a server, where the modern listens for incoming connections from a remote client on a specified port. Additionally a source IP can be specified, and only connections from this IP will be accepted.

Configuration Tool

The windows based application allows you to configure all settings available in one place with a single window. The settings are then saved in non-volatile memory and are activated the next time the modem is started up.



SMS Configuration Commands

A mobile phone is used for this method of configuration employing the SMS command service.

