

Special Purpose Products

SMS Alerter



- SMS Alerter enables you to get advance notifications through an SMS to avoid major breakdowns.
- It is fully secured and remote controlled, easy to configure and update through SMS commands.
- Ability to send messages to multiple recipients.
- Event descriptions are programmable over the air.
- Supports 2 or more inputs

Digitally Triggered SMS Server



DTSS is a monitoring device which is integrated with GSM Modem for sending the status of the monitored Inputs to users through SMS. Up to 8 digital inputs and 8 analog inputs can be connected to the unit. When a change of state in any of the input is detected, the unit sends an alert to the user.

Serial Triggered SMS Server - STSS



STSS makes it possible for any device to send SMS alerts without having to learn and implement complicated AT Commands etc. STSS accepts U<mobile Number>, <SMS Message> CRLF from any equipment through its RS232 port and sends out the SMS immediately to that Mobile Number. Auto baud rate and result codes, makes the STSS very simple to integrate in to any system. A model where the commands are accepted over the Ethernet LAN is also available.

Vehicle Tracking Unit - IVU



IVU-3 is a Mobile / Stationary Data Acquisition and Control Unit with Multiple Communication interfaces. This has a GSM Modem to send & receive SMS messages. GPRS capability to communicate with the Central Monitoring Server and Multi Channel GPS receiver to provide exact positional data of the vehicle or location.

Design & Development



SEL has a strong and committed Design & Development team which works to bring out State of the Art products which are very unique and "first of its kind" in the Indian Market. The entire range of hardware products are designed in-house which is in addition to custom designed products like controllers for **X-Ray film Dryer, X-Ray Film Processing, Cathlab etc.**, to name a few.

Custom Developed OEM Products



SEL custom develops and supplies embedded board level solutions to its OEM customers for various applications. These boards use the latest in embedded technology to offer a cost effective, feature rich and reliable solution to the customers in need of embedded logic and control. We use 16 and 32 bit controllers with **CISC & RISC** architectures in **RTOS** and **NON RTOS** environments. **Embedded networking, RTOS, Highly optimized C,** Analog and switched power supply are some of the technologies commonly used in our designs.

Products

Medical Image Processing
X Ray Film processing & Drier
Audio Player
Security Guard Monitoring System
Linear & Switch Mode Power Supplies
CAN Data Logger

Remote Monitoring Device Server Software



With Remote Monitoring Device Servers it is possible to create a web portal that collects remote data to constantly monitor the health, readiness and geographical position of remote devices 24/7. The RMDS provides secure, reliable & easy-to-use services of remote devices anywhere in the world, whenever you want. The RMDS offers monitoring, control, alarm management, historical data, logging, trending, reports, data exports services & much more.

We also undertake designing of customised Hardware Products and associated software. Do contact us for any of your specific requirements.

Quality Policy:

SPARR ELECTRONICS LTD - SEL as a team is committed to Design, Manufacture and Deliver High Quality, Reliable and Cost Effective Products on Time and to Meet or Exceed the Customer's Quality Expectations, with focus on Continual Improvement of Effectiveness, of Quality Management System (QMS) with added assurance of "**Prompt Service**".



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*Innovative
Solutions*



**SPARR
ELECTRONICS
LIMITED**

An ISO 9001 : 2008 Company

Sparr Electronics Ltd., is a an **ISO 9001:2008** certified company based in Bangalore India, engaged in the Development and Manufacture of need based innovative products in the field of Electronics & Telecommunication, SEL also distributes hardware and software products from leading international companies.

Sparr Electronics Limited has a strong and committed **Design & Development** team which works to bring out State of the Art products which are very unique in the Indian Market.

We are also National distributors of **Hardware & Software Products** for Leading International Companies.

Interface & Protocol Converters • IoT and M2M Solutions
Serial to LAN Converters • Central Monitoring Software
RFID Readers • Custom Product Design & Manufacturing
MODBUS Gateways • Serial Multiport Cards
GSM/GPRS/GPS products for Data Gathering • Network, Data Center & IT Management

Power & Data Isolated Converters

Android to Serial Converter - USB 232 MA



The Android 232 & Android 485 converters are a Full Speed USB host specifically targeted at providing access to peripheral hardware from any Android platform with a USB device port. Suitable for use on any Android platform supporting Android Open Accessory Mode (Typically 3.1 onwards) USB 1.1 & 2.0 - Low speed and full speed USB data rates are support.

USB to RS 232 Serial Converter - USB 232 M



- USB Powered, V 1.1 & 2.0 Compatible.
- Serial speed support up to 500 Kbps.
- Hardware & software flow control.
- Drivers support for Windows, Linux & Mac OS.

Serial Port Isolator - ISO 232 M



- Serial speed support up to 115200 bps.
- Optical Insulation for all RS 232 signals > 3KV.
- Communication status monitoring through LEDs.
- Power insulation > 2.5KV.

"Ask for multipoint converters"

RS 232 to RS 485 / RS 422 Converter - CONV 485 M



- Serial speed support from 300bps to 115200bps.
- Uses external DC power supply or from USB port.
- Power Isolation > 2.5 KV.
- Optical Isolation for serial port signals.
- Jumper Selection for RS 422/485 mode.
- Max-256 Device Connectivity.

USB to RS 422 / RS 485 Converter - USB 485 M



- USB Powered, V 1.1 & 2.0 Compatible.
- Serial speed support up to 500 Kbps.
- Drivers support for Windows, Linux & Mac OS.
- Jumper selection for RS 422 / 485 Mode.
- Max 256 Device Connectivity for RS 485 / RS 422 mode.

Single Port Wireless Ethernet Adaptor EAD - 01W



- Secure wireless communication.
- Supports range of wireless LAN and security Products.
- Low power consumption.

Two Port Ethernet Adaptor EAD - 02



The EAD 02 connects up to 2 Serial Devices to Ethernet Network using the TCP / IP or UDP protocol EAD 02 provides Ethernet Connectivity to your products quickly and economically.

Two Port Wireless Ethernet Adaptor EAD - 02W



- Connects two serial devices to a Wireless Network.
- End to end security using 256 bit Rijndael AES encryption.
- Secure wireless communication.
- Extremely effective embedded 802.11 b/g wireless networking.

RFID MF & RFID MF PB MIFARE



- 13.56 MHz operating Frequency.
- RS 232 Serial output for connection to Controllers or Serial port.
- Supports reading of MIFARE Encoded cards with 1K & 4K memory.
- Read range up to 5 Cm.
- Command to be issued for Read or Write operation to the card memory.
- Data encryption for secured storage in memory of the card.
- RDIF MF PB is the reader enclosed in a Plastic Box to work under various environmental conditions.

RFID & NFC Reader

125 KHz And 13.56 MHz

RFID 125 MDV & RFID 125 PB 125 KHz



- 125 KHz operating Frequency.
- RS 232 and Wiegand (26 Bit format) output for connection to Controllers or Serial port.
- Supports reading of 64 Bit Manchester Encoded cards.
- Read range up to 7 Cm.
- Send tag ID HEX Value in ASCII format with Carriage Return and Line - Feed.
- RFID 125 PB is the reader enclosed in a Plastic Box and encapsulated / potted to work under various environmental conditions.

Interface Converters

Serial to USB Drive



USB Drive module performs the function of collecting RS 232 Serial Data from any device or system and facilitates storage of the same in standard USB Stick / Pen / Thumb drive. This utilizes the large storage capacity available in the Removable Media for storing regular flow of information for later analysis.

Serial to Wireless - SWL - 01



SWL 01 converts RS 232 Serial data for wireless communications over air using Zigbee Protocol or Bluetooth to a maximum distance of about 100 meters. This product can work in pair as a serial cable replacement solution or in single Master and multiple Slave mode for networking of multiple devices.

Wiegand to Serial



Wiegand to Serial Converter performs the function of collecting the Wiegand data from any Reader / Device and converts the same to ASCII Data format and sends the data through standard RS 232 Serial ports to Host computer or Serial port.

Serial Data Buffer Unit - BU 01



BU-01-101 is a Device which stores the data received from the Serial Port into USB pen drive as a file. This Device is also capable of monitoring 8 isolated Digital Inputs & 2 Analog Inputs and storing the same with date and time Stamp. BU 01 is also capable of transferring the data from USB drive to serial port.

Special Purpose Products

MODBUS Gateway



The MODBUS Gateway product, MODBUS enables any serial device which does not support the MODBUS Protocol, thus paving the way for the connectivity, use and management in a networked environment.

SNMP Adaptor



The SNMP Adapter product, enables any device which does not support the SNMP Protocol, thus paving the way for its connectivity, use and management in a networked environment using standard software which supports SNMP monitoring.

Ethernet I/O (Remote Terminal Unit)



The ETH IO - 2.0 unit enables the user to monitor the Analog inputs, Digital inputs, control relay outputs and also the status of the slave units connected to it through MODBUS protocol. A single box of ETH IO -2.0 contains 8 Analog inputs, 8 Digital inputs, 8 potential free relay contacts, a query based response unit on the RS 232 bus and a RS 485 port to connect to the slave units. Up to 6 slave units can be connected through the RS 485 interface. Using the LAN (RJ45 Connection), all of the information of the inputs and the status of the different units connected to it, will be sent to the main server.

Wireless Device Server - GSM



WDS GSM provides full functional capability to serial devices to send SMS and data over GSM Network using GPRS. The Product is available in Board Level or enclosed in Metal Box Customised GSM Modem for data gathering applications are available.

Addressable Mini I/O



Users can easily add/remove a Serial Port in their RS485 network to talk to RS232 based Serial Devices with the added feature of addressability. Power and Data Isolated RS485 port gives protection to the unit and also the connected RS232 device from the RS485 network. Unit address can be set by 8 way DIP switch allowing 255 addresses. Baud Rate and other RS232/RS485 port parameters are set by writing in to Modbus Registers.

Input Output Unit - I/O Unit



The I/O Unit enables the monitoring and/or control of Analog, Digital Inputs & Outputs or Devices through MODBUS RTU protocol. A single box has 8 Analog, 8 Digital Inputs and 4 potential free Relay contacts and requires only the setting of Unit ID through a DIP Switch before use. Using multiple units on the RS485 Bus, up to 2000 Inputs and 1000 Outputs contacts can be easily realized. Using out RS485 to GPRS / WiFi / Ethernet products, monitoring and control of these units may be done over the network / Internet etc.

NTP Server & Client



Sparr GPS synchronized master provides a complete precision timing solution for all types of commercial systems, from NTP network time synchronization, the control and time synchronization of a single piece of intelligent equipments. The Sparr NTP time server on a TCP/IP network serves NTP/SNTP time-packets directly to clients on the network.