



DEAR CUSTOMER

Datasol team thanks all its customers for the overwhelming support and feedback provided to our first news letter released in DEC-2017. We would like to thank one and all for the patronage & confidence in us.

Change is the law of nature. Visualizing, Conceptualizing, Adapting to the early signs of change in technology provides opportunity to Master it early and help in transforming businesses in the long run.

IOT is one such Opportunity which is being viewed as a game changer. With this comes demand for systems and solutions that need to be more compact, robust, highly customer friendly and yet price sensitive considering that these can be utilized for Utility Applications in a very large volume. This also means that we need to be more focused to address these challenges by bringing more innovative, reliable products to the market. We will also have to keep tab of fast changing market requirements which keep changing due to technological advancements / innovations.

Datasol which is primarily into System Engineering, Embedded Product Development & Manufacturing for Defense and Space, has decided to focus and widen its business by bringing out products which address the present and future requirements in IOT segment. We are already working towards this goal and have come up with a roadmap to release few Innovative IOT based products in coming months. The details in this regard shall be shared with all as part of Our Next Quarterly Newsletter. We look forward to your feedback, thoughts and views that could help us improve our Newsletter and offer insights to focus and improve our business too



Satish Reddy
Director - Operations

Datasol as a product design company and as an Innovator, has realized the optimal usage and utility of the FPGA's in defense applications. With 20 years of product design and vast exposure to various domains, Datasol has adapted the best design practices using CPLD's, SPARTAN and Zynq FPGA's in many of its Indigenous designs.

Using Zynq 7020, we have designed a product that can help the user to interact with multiple input signals which are listed below.


- RS422 Interface (2Ch)
- Isolated thermocouple interface (1ch)
- Isolated RTD interface (2 Ch)
- 16 Bit resolver interface (1ch)
- Two (NH/NL) Speed sensor Interface

- Isolated Discrete I/O (16 Lines)
- LVDT / RVDT Interface (1 Ch)
- Pressure Sensor Interface (2 Ch)
- Servo valve interface
- Stepper motor with quadrature encoder interface




The design is highly adaptive for applications like On-board Computer, Actuator Control, Engine Control, Weapon Guidance and Underwater applications. In house team of Datasol can help the end user to suit the end application in terms of customizing the connector panels and qualifying the product various standards as demanded by the project. Currently the unit is designed for MIL-STD-810, MIL-STD-461 and MIL-STD-704D Standards.

MESSAGE FROM MR. NICK WILSON – DIRECTOR SALES WESTEK TECHNOLOGY, UK



Westek Technology is an independent UK manufacturer specializing in rugged MIL servers and computers. With over 30 years' experience and with systems successfully deployed in over 70 countries worldwide, Westek offers a large range of COTS and bespoke systems designed for military and industrial applications. Datasol are Westek's exclusive partner for the defence market in India and have been providing expert local support and service for Westek products since 2011.

Latest Release : New to Westek's rugged family is the P3042R, a 3U industrial rugged server with up to seven full size PCIe expansion slots and direct rear I/O. The unit ultra-low depth at only 420mm, and is shock and vibration tolerant and has a wide operating temperature range. As with all Westek Rugged Servers, it's highly scalable and has options for up to six hot swappable SSDs from 128GB to 3.84TB each. The system has superior EMI filtering to meet MIL STD 461F CE101 and CE102 conducted emissions, and has a wide choice of the latest Intel® Core and Xeon® processors.



Westek have also recently introduced support across the range for the latest generation Intel® Scalable Xeon processors.

Westek can offer 1U to 4U standards as well as custom version of Rugged Server and Storage, External Rugged USB storage up to 3.84TB and Rugged KVM Display.

NEW RELEASE

M/s. SBG Systems is a fastgrowing supplier of miniature, high performance and innovative motion sensing solutions. SBG Systems headquarters are based in Carrières-sur-Seine, France.

SBG Systems offers a complete line of inertial sensors based on the state-of-the-art MEMS technology such as Attitude and Heading Reference System (AHRS), Inertial Measurement Unit (IMU), Inertial Navigation Systems with embedded GPS (INS/GPS), etc.



MEMS technology, combined with advanced filtering, calibration and fusion techniques offers miniature and low-cost solutions while maintaining a very high performance at every level.

These systems are ideal for industrial, defense & research projects such as unmanned vehicle control, antenna tracking, camera stabilization, and surveying applications. In specific applications, they can be used as replacement for Electromechanical, FOG and RLG products.

NEWS & EVENTS

- Datasol successfully completed second audit of AS9100 RevD and awaiting for certificate.
- Datasol has signed an agreement with following companies to promote their products in India
 - **M/s. CSIR - NAL** has designed & developed various type of desktop and large Autoclaves and Datasol has singed for Desktop Autoclaves promotion & productions of the same.
 - **M/s. Dspnor** based out of Norway, involved in development & supply of Radar Signal Converter (RSCC), ScanFaker (Radar Simulator), ScanStremaer Radar to LAN converter, DeStreamer and ScanView Radar Processing Framework.
 - **M/s. PANATEQ** is a Switzerland company based out of Geneva, first to bring the power of the Zynq MPSoC to the Standards 3U VPX + FMC format. M/s PANATEQ is mainly focusing on design and development of various ZYNQ UltraScale+ MPSoC, FMC High Speed ADC & DAC module to suite various types of RF & SDR application.
 - **M/s. TWINHEAD** based out of Taiwan, mainly focusing on design & development of various types of DURABOOK make Rugged Laptop 13.3", 14" and 15.6", Rugged TABLET, Rugged PANELPC and Rugged DISPLAY for various applications like Military & Non-military segments.