DATA GATE

datasol
Inspiration Innovation Inculcation

Message from Director - Technology

Evolution and advancements in technology is so rapid, at the same time, it is occupying a major part of human day to day life knowingly or unknowingly. The whole world is trying to compete to catch up with the growing technologies. Human beings are aspiring to use drones for material and man movement. They are aspiring to land on moon and exploring space tourism, of course human life is very important and the safety of such missions takes utmost priority

DATASOL, in view of catching up with one such challenge, is focusing a lot on inertial segment. The team is gradually mastering the art of designing a navigation system for various applications, be it a Quadcopter, Drone, UAV, Fighter Aircraft or a Helicopter. We have mastered the usage of MEMS and FOG sensors and required advanced filtering technologies, and are packaging the same to work with different subsystems in different platforms.

While thanking you for your support in this edition of the newsletter, we are covering indigenous designs of inertial products. We request our Indian industries to recognize our effort and make us part of your success.

Jayaram Udupa
Director - Technology

DATASOL'S INERTIAL SENSORS RANGE

DATASOL as a product design company and as an innovator has realized sensor products using MEMS and FOG Technology.

'With the growing demand worldwide, for MEMS based inertial sensors, DATASOL has taken a forward step to influence its innovations on the inertial products. As a result, we have successfully done the indigenization of a Towed Sensor, AHRS, Accelerometer Sensor Assembly and a VG for the Navy and Aviation applications. We are also working on FOG based technologies which are cost effective and produce better accuracies that can help users to replace the high cost and bulky RLG based IMUs.

MEMS Based Towed Array

MEMS / FOG AHRS

ADAHRS (MEMS & FOG)

Accelerometer Sensor

MESSAGE FROM MR. GEORG HAUBNER - SALES & MARKETING DATAFORTH CORP, USA

Dataforth is a worldwide leader and innovator of signal conditioning, data acquisition, and data communication hazard protection solutions in the ever-expanding factory automation markets. **With 35 years of experience and counting, Dataforth serves more than 10,000 customers worldwide.**

Dataforth customers benefit from worldwide distribution of its products and solutions. A network of over 130 US, International and North American manufacturers, representatives and distributors in major markets are provided sales and support convenience by Dataforth.

DATASOL is Dataforth's exclusive partner for all customers in India and have been providing expert local support and service for Dataforth products since 2001.

Latest release: Dataforth continually expands its I/O module offering for MAQ20 Data Acquisition System (DAQ). Dataforth has now over 25 individual modules available for the MAQ20. This DAQ family consists of DIN rail mounted, programmable, multi-channel, industrially rugged signal conditioning input and output modules and communications modules. Each I/O module has a 1500Vrms isolation barrier between field-side and system-side wiring, and many models offer per-channel isolation. All field wiring terminals are heavily protected against overload, accidental connection of incorrect signals and ESD. Modules mount on the industry standard 35x7.5mm gull-wing DIN rail. A backbone mounts within the rail providing power and communication interconnections between the communications modules and each I/O module.
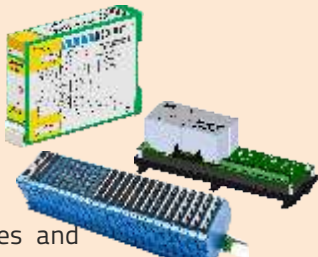
LATEST IN THE SEGMENT

Software-defined radio (SDR), sometimes shortened to software radio (SR), refers to wireless communication in which the transmitter modulation is generated or defined by a computer, and the receiver uses a computer to recover the signal intelligence to select the desired modulation type; proper programs must be run by microcomputers that control the transmitter and receiver.

Founded by experts for experts in High-end Embedded Computing, M/s PanaTeQ's mission is to integrate the most powerful Embedded Computing technology of the day into VPX, XMC, FMC, AMC and MTCA.4 boards and systems of extreme reliability, availability and durability, for use in the most demanding aerospace & defense, telecom, research and industrial applications.

PanaTeQ provides solutions using Xilinx's Zynq Ultrascale processor on different platforms like VPX, XMC, FMC, AMC and MTCA.4 and are available in air cooled or conduction cooled version.

APPLICATIONS

- MILCOM
- Software Defined Radio
- Situational Awareness Systems
- Electronic Warfare, Signal Intelligence
- LIDAR / RADAR / SONAR Systems
- Advanced Multi-Axes Motors Control
- Video CODEC and Signal Processing
- UAV DataLink
- Massive MIMO
- Phase Array RADAR Systems

NEWS & EVENTS

AERO INDIA

DATASOL is participating in the upcoming Aero Show in Bangalore, from 20th - 24th Feb, 2019. Please do visit us at **HALL - A - BOOTH A1.3**

- **DATASOL** is shipping IoT hardware which supports multi-protocols like Xbee , LoRa, GPS & GRPS
- **ADLINK** announces two new CompactPCI® 2.0 processor blades powered by latest Intel® Xeon®, Core™ and Atom® Processors
- **PanaTeQ** releases XMC-SDR-AXMC board with Xilinx Zynq Ultrascale+ MPSoC + Dual ADRV9009
- **WESTEK** launches their most powerful conduction cooled server latest Intel® Xeon technology with up to 28 processor cores, combined with IP65 water and dust ingress rating
- **M/s SBG SYSTEMS** releases Ellipse 2 Micro which reduces high performance inertial sensors size and cost for volume projects.