



**Zing Technologies**  
*The Rays of Future Technology*



**DEFENCE**



**AEROSPACE**



**INDUSTRIAL**



**RESEARCH**



## Embedded Computing



### ABOUT US

We are a prime supplier & integrator of Rugged, Embedded computing & DAQ systems, Avionics interface, COTs hardware and products for Scientific Research.



## Avionics



### GOAL

We aspire to be the solution provider for state-of-the-art technology based products where failure is not an option.



## Rugged



### MISSION

Complete solution provider for Embedded Systems & Rugged hardware to make your mission successful.



## Research



### VISION

To meet the expectation of all our customers across the Indian sub-continent.



### OUR TEAM & SERVICE

Our combined 100+ man years of experience focusing on customers success have made us the preferred solution provider in our core customers in Defence, Aerospace & Scientific Community. We support open modular solutions developed to meet the demand of growing complex requirements for data, communications and sensor processing capabilities of the target system.



### BACKPLANE, ENCLOSURES & POWER SUPPLY

We offer a wide range of backplane & chassis system for all the standard form factors includes:

- VPX • VME • VXS • cPCI • PXI • PCIe • PC104
- uTCA • ATCA • ATR Chassis(3U&6U)



### SBC & IO CARDS

Single board computers & I/O cards to configure a complete Data acquisition system.

Form Factor: VPX • VME • cPCI • MicroTCA • ATCA, XMC & PMC

I/Os: ADC • DAC • DI/DO • AI/AO • Storage • Switches • GPS • GPGPU • Serial I/Os



### MicroTCA / AMC / Advanced TCA SBC & IO CARDS

uTCA based Single board computers & I/O cards to configure any customized data acquisition system / Mission computer.

- Processors • Switches • Chassis • MCH & Shelf Management • Power Modules
- A/D & D/A • FPGA/FMC Carriers • Graphics • Network Interface • Digital and Serial I/O
- Storage • Carriers • Clock & GPS Modules • Other FMCs (IRIG, NECL, RF)



### COM EXPRESS

We offer a range of small form factor modules:

- ComExpress Type 2/6/7/10 & QSEVEN
- Carrier board for ComE & Q7
- ETX • XTX • SMARC • ITX
- CPU: Intel Atom • Celeron • i series • Xeon series • ARM series • NXP series



### BOX PC & INDUSTRIAL COMPUTER

- Industrial Chassis • Rugged Embedded
- Fanless Embedded Box PC
- In-Vehicle Computers • Railway Computers
- Machine Vision Systems • Surveillance Systems
- GPU Computing • Industrial Motherboards



### INDUSTRIAL & RUGGED SOLID STATE DRIVE

- 2.5" mSATA, SlimSATA & PATA SSD, NVMe available in both SLC & MLC Flash
- Capacity: 16GB to 2TB • Build-in ATA secure erase and S.M.A.R.T Functions
- SCSI Based HDD/SSD, Magneto Optical drives, Floppy Drives, Tape Drives & PCMCIA/PC Card • 3.5" SCSI 50-Pin, 68-Pin, 80-Pin drives
- Space grade DRAM memory modules



### **MIL-STD-1553B**

- MIL-1553 modules supports upto 1/2/4/8 channels
- Multi-function / Single function • IRIG-B Receiver & Generator
- 8 Bi-directional Avionics Discrete IO

Form factors:

USB • VXI • VME • PCIe • PC/104 • PCI • PXI • cPCI • XMC • PMC • Ethernet



### **ARINC 429 & ARINC 825/CAN OPEN/J1939**

- 4,8,16,32 Programmable Tx / Rx channels
- Configurations available with ARINC 429 and ARINC 573 / 717
- 8 bi-directional avionics-level discrete
- Independent, software-programmable bit rates for all channels

Form factors:

USB • VXI • VME • PCIe • PC/104 • PCI • PXI • cPCI • XMC • PMC • Ethernet



### **AFDX/ARINC 664 p7**

- Rugged and development switches: 12 ports, 24+1 ports and 16 ports in 3U & 6U VPX from upto 1Gbit/s line rates
- End Systems: PMC, XMC, PCI & PCIe rugged as well as development version
- Fully ARINC 664 p7-Complaint



### **ARINC 818 (FC-AV)**

ARINC 818 is a high-bandwidth, low-latency Avionics digital video bus for mission-critical applications

- Frame Grabber • Stand Alone Module • Switches • Video & Protocol Analyzer
- IP Core & Evaluation Package • Systems & Recorders



### **sFPDP / GIGABIT ETHERNET RECORDER AND FIBER CHANNEL ANALYZERS**

- SERIAL FPDP Recorder • Gigabit Ethernet Recorder/ 10GbE Recorder
- Data Recorders • G1 microRecorder • HD Video Recorder
- Rugged NAS / micro Server • Mission Computers

XMC Products:

- Serial FPDP XMC • Quad Gigabit Ethernet XMC • Quad 10GbE XMC
- Fiber channel & sFPDP Analyser



### **AIRBORNE RUGGED AUDIO AND VIDEO DATA RECORDER**

- Rugged Audio & Video Recorder and Streamer
- Multi Input Airborne Flight Data Recorder
- Air Data sensor for UAV & OPV





### **RUGGED NOTEBOOK**

- Display: 13.3", 14", 15.1", 15.6" & 17.1"
- CPU: Intel Core latest i7, i5 & Pentium series
- Customization of additional interfaces on request
- Ruggedized Design certified for MIL STD 810G, MIL STD 461F & IP65
- Field exchangeable battery & HDD/SSD and enhanced temp. range -30°C



### **RUGGED & INDUSTRIAL TABLET PC**

- Display: 7", 8", 8.4", 10.1", 10.4", 11.6", 12.1", 13.3" & 15.1"
- CPU: Intel i5, i7, Atom, Celeron, ARM & Pentium processor
- MultiTouch, Outdoor Readable Display, various wireless Communication
- Qualified for MIL STD 810G, MIL STD 461F & IP65
- OS Support: Windows 10, Windows Embedded std. 7/8.1, Linux, Ubuntu, Android



### **RUGGED & INDUSTRIAL HANDHELD PDA**

- Display: 4.3", 5.0", 7" equipped with Intel Atom, ARM Cortex, TI Cortex CPU
- OS: Windows 10, Win CE 6.0/6.5 Pro, WHM 6.5, Android
- Support for Smart card reader, Fingerprint reader, extended battery life
- Rugged design qualified for MIL STD 810G, IP65/67 & MIL STD 461F
- Robust communication option like Wi-Fi, BT, 3G/4G & Support GPS, GLONASS, etc.



### **RUGGED COMPUTER & SERVER**

- Rugged compact and rackmount 1U/2U/3U/4U type Server & Computer
- Single or dual Xeon processor with Multicore option and Intel i7 CPU
- Customizable MIL Interfaces as per requirement
- Rugged Conduction or Air cooled version and option for sealed enclosure(IP65)
- Design to meet MIL STD 810G & MIL STD 461F



### **RUGGED ETHERNET SWITCH & ROUTERS**

- Managed & Unmanaged Ethernet switches with two 1 or 10 Gbps Fibre uplinks
- No. of Ports: 8, 12, 14, 16, 18 & 24 either in circular or Standard RJ45 interfaces
- Form Factors: 19"/2 Rackmount, Wall mount, Standalone and Vehicle mount type
- Designed for MIL STD 810G, MIL STD 461F & IP65
- Also we have few Cisco based Switches & Router and Fibre switches



### **RUGGED DISPLAY**

- Standard display sizes from 6.5" to 24.0"; custom sizes/resolutions available
- Display Type: Console, Standalone, Rackmount Multi display with Keyboard, Rackmount, Panel Mount, Standalone, Military grade water proof LCD display
- Mil grade 1U/2U Flip-Up Monitor with Integrated Keyboard & Trackball
- 2U/3U High Rackmount Dual Flip-Up LCD monitor
- Large Format Display 30" to 65" display sizes (and larger)



### RUGGED PANEL PC

- Display Sizes: 8", 10.4", 15", 17", 19" & 24"
- CPU Intel i7, i5, Atom, Celeron CPU
- Convenient On-Screen Display Controls, Anti-Corrosion Housing / Fanless
- Default Military Grade Power Connector (MIL-DTL-38999/1 & 38999/3)
- AC 110~240V Power input default / Isolation DC 9~36V Power input (Optional)
- Compliant with MIL-STD-810G/F & MIL-461E/F-STD



### INDUSTRIAL & MARINE DISPLAY

- Display Sizes: 5.7" to 32" and other sizes on request
- Open Frame Display, POE Touch Monitor, Chassis Display, Flat Stainless (P-CAP) IP65 Display
- 4K-UHD Medical Display, Multi-Touch Display, ECDIS Marine Panel Display, Wall Mount
- High Resolution Electronic Large Screen Display HEL, Front IP65 Display, LCD+ Board Kit
- Certification: DNV2.4, IEC60945, IACS-E10, CE, FCC



### INDUSTRIAL & MARINE PANEL PC

- Display Sizes: 5.7" to 32"
- Type Panel PC (PPC): OFC, Panel Mount, Chassis & IP65
- IP65/NEMA4 Panel PC, ECDIS PPC, P-CAP Full IP65, HMI Slim PPC, Multi Touch PPC
- Flat Stainless P-CAP series, Vehicle Mount PPC Digital Signage PPC
- Comply with DNVGL-CG-0339, IEC60945, FCC Part 15B Class B, CE, IP65/IP66



### RUGGED POWER SUPPLY

- Rackmount Rugged AC-DC in 1U, 2U & 3U form factor with Both Single & three phase option Output from 0-10KW, Single, Dual, Triple & Quad Outputs with different output voltages
- High & Low DC-DC power converter with wide DC input ranges from 9-36VDC or 18-36 VDC
- 1U Ruggedized redundant N+1 pluggable from 500 to 3000VA power supply



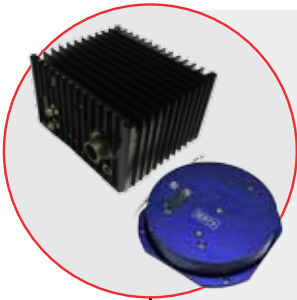
### RUGGED UPS & INVERTER

- Rugged Power Inverter 500/800watts DC to AC Portable. Submersible IP67 IP68 waterproof
- Rackmount Rugged Stackable UPS from 800 Watts/VA upto 12KVA
- Military power distribution, Military Tactical power Transformer
- Designed to meet MIL-1275-STD, MIL-461-STD, MIL 810-STD & MIL-704-STD
- Designed for Navy, Army, Marines & Air Force Command Center



### RF RECORD/PLAYBACK SYSTEM

- 4/8ch Aurora Recording /Playback
- Fiber Optical Interface, SFP+/Copper, 5Gbps, 3.125/ 2.5Gbps per ch
- Aggregated data rate up to 3,840MB/s sustained
- Windows OS and NTFS
- Recorded into multiple files, accessible by network



### INERTIAL NAVIGATION & FIBER OPTIC GYROSCOPES

- Navigation, Stabilization, Guidance & Control system
- IMU for Airborne, Naval & Military Application
- Single & Three axis turntable
- Sensor technologies ranging from MEMS, FOG, RLG, HRG & Dynamic Turned Gyros
- Miniature fiber optic gyro system • Open look sensing • Analog processing • 10 yr MTBF



### THERMAL IMAGING CAMERA

- Multi Sensor PTZ Thermal Night/day Camera System
- Thermal Camera available both Cooled and uncooled version
- Fixed Thermal Camera, Near IR Cameras
- Handheld Camera, Multispectral Cameras, Gas Leak Detection Cameras
- Enhanced Vision System (EVS) & Mobile Thermal camera for Android
- Handheld Thermal MONOCULAR/BINOCULAR & Thermal Weapon Sight



### FIBER OPTIC TEST INSTRUMENTS

- Optical Power Meter • OTDR & Fiber Ranger
- Pon Power Meter • Optical Attenuator
- GigaE Tester • Laser Source • Fiber Fault Locator
- Optical Return Loss • Fibre Signal Identifier • ADSL2+ & VDSL2



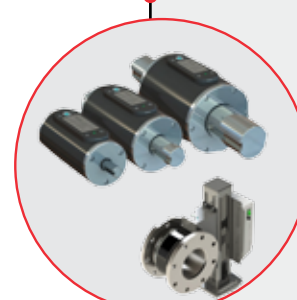
### MAGNETOMETERS & HELMHOLTZ COIL

- Single / Three-Axis Fluxgate Magnetometers • Defence Magnetometers
- High Temperature Magnetic Probes • Space and Aerospace Magnetometers
- Hand held 3-Axis Hall magnetometer • Helmholtz Coil Systems & Test Equipment
- Magnetic Susceptibility Systems • Magnetic Field Gradiometers
- Data Acquisition & Conditioning Units • Magnetisers • Demagnetisers
- Instruments • Magnet characterisation • Coils • Electromagnets • Gauss & Flux Meters



### RADIATION MEASURING INSTRUMENT

- Digitizers • Digital Signal Processor • Pre-amplifier • Spectrum Survey meter
- Positron Lifetime Measurement System • Multi-Channel Analyzer
- Function Generator • Mini Survey Meter • Silicon Drift Detector System
- High Voltage Power Supply • Gamma Imaging Module



### TORQUE TRANSDUCER & SHAFT POWER MEASUREMENT

- Rotary & Static Torque Transducers • Tractor PTO Shaft Monitoring System
- Shaft Power Measurement Solutions • Naval Shaft Power Meter Systems
- Marine Shaft Power Meter Systems • Load Cell Amplifiers
- Custom Torque Sensors / Torque Transducers • Bolt-On Strain Sensors



**Zing Technologies**  
*The Rays of Future Technology*



## OUR LOCATIONS

### CHENNAI OFFICE

#F2, 11/9, 1<sup>st</sup> Floor,  
Mukthamji Street, Alandur,  
Chennai-600 016, Tamil Nadu.  
+91 44 2231 0128  
+91 97406 06001

### BANGALORE OFFICE

#12, 4<sup>th</sup> Floor, Sheshadri Complex,  
Munekolal Main Road, Marathahalli,  
Bangalore - 560 037, Karnataka.  
+91 80 4091 2987 / 2523 6609  
+91 97406 01114

### NEW DELHI OFFICE

#3F-574, Ground Floor,  
Sector 3, Vaishali,  
Ghaziabad - 201 010, Uttar Pradesh.  
+91 120 4097 038  
+91 99111 44026