

**Welcome to
AdvanceTech
Technology
Keeps You Ahead**

28 Years of Excellence



Business Units



Group Companies



28 Years of Excellence

Our History



1995

Advance Tech was Established



2021

Excellence Centre in Bengaluru
Embedded SW HW Design Development



2023

Nuclear Experience Centre
In Mumbai



2024

Digital Transformation Center
In Vadodara



Group Companies

1995

Founded by Technocrats

Mumbai

HQ, with offices in Bengaluru, Hyderabad, Kolkata, Delhi, Dubai UAE

100+

Employees. (and growing!)

Industries



Pharma



A&D



Automotive



Heavy Industry



High-Tech



Medical Devices



BFSI



Nuclear

Management Team



Pradip Kulkarni
Group chairman and MD



Nijesh Parmar
Director and CTO



Arindam Gupta
Director and COO



Jagan
Head Mil Aero



Vaishali Singh
Director



Rajesh
Software Head



Veluswamy – Design Head



Ramakrishna N



Dhanush M

Partners

NAII
MIRION
IDEAL
CORMET
ASCION
REDLION

Nuclear Research

Radiation
Detection
Monitoring
Corrosion

Mil Aero

Rugged CPU
I/O
!553
VPX VME

Business Units

Industrial

SCADA
MES
SENSORS
IOT
Panels

BFSI

Voice Loggers
Turrets
Software
BI

Education

Teaching
Equipment

Services

Hardware Software
Development
Offshore SLA and MSA
Design engineering
L1 ,L2,L3 Support
Managed Services

Excellence Center Mumbai



Excellence Center Bengaluru



Excellence Center Vadodara



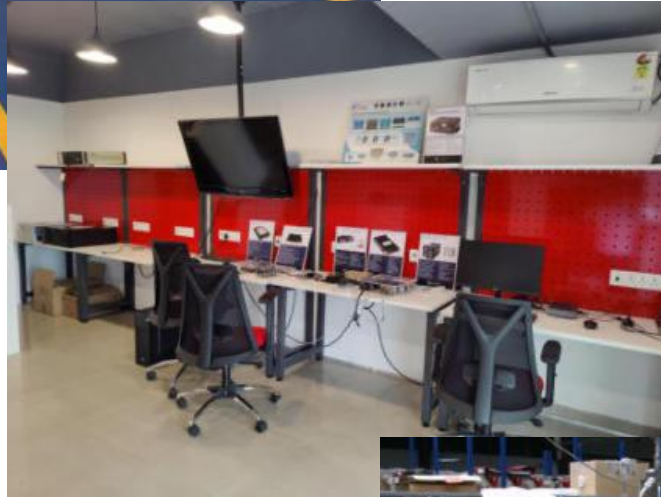
Group Companies



Joint Ventures History



Make in India



Value Addition in Manufacturing:

1. Under the "Make in India" initiative, the company manufactures systems in India.
2. Value is added through activities such as mechanical work, electronics, system integration, calibration, and design engineering.
3. The company is an authorized exclusive distributor for some of the world's leading companies.

Manufacturing and Acceptance Test Facility:

1. The company boasts a 10,000 square feet manufacturing and acceptance test facility.
2. This facility is equipped to conduct tests and calibration for all kinds of system integration tasks.

Installation Support Services:

1. The company has a factory-trained team of engineers.
2. They provide installation and support services, including 24x7 availability for critical installations.
3. There are local spares maintained and repair facilities equipped with the necessary equipment to meet strict Service Level Agreement (SLA) timelines.
4. Engineers are available to visit customers within India, neighboring countries, and international customers in the Middle East, Africa, and Europe.

Joint Ventures:

1. Advance Tech and its founders have established successful joint ventures.
2. Partnerships include a SCADA software company from the USA, a scientific instruments company from France, an embedded systems manufacturer from Germany, and a voice logger company from the Netherlands.
3. These joint ventures focus on providing cost-effective manufacturing, manpower, and infrastructure.
4. The ventures leverage 28+ years of goodwill and a large customer base (1000's of customers) for easy market access.

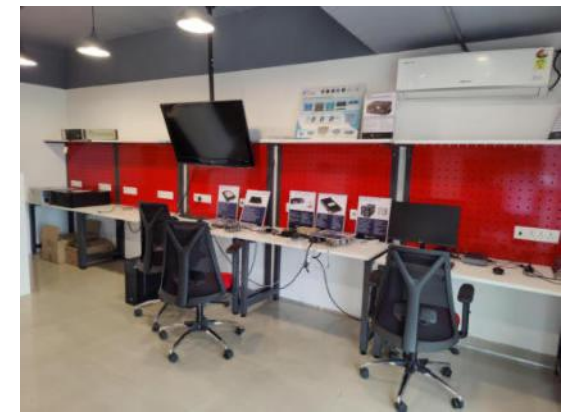
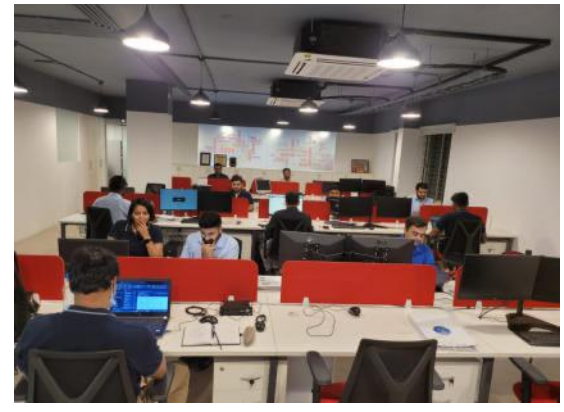


Digital Factory

Rugged and Embedded Systems

DIGITAL FACTORY

- ERP BASED TRACK A TRACE
- IOT BASED QUALITY CHECKS
- PEOPLE INDEPENDENT MANUFACTURING
- EXPORTING TO FRANCE AND US
- DESIGN TEAMS
- EMBEDDED SOFTWARE TEAM
- MECHANICAL FABRICATION



Nuclear Energy and Research

From Detection to Protection
For Safer Tomorrow



Miron Technologies Excellence Center

Excellence at cost of 1 million USD

Spread in 6000 SFT facility

State of the art systems from Miron

Up skill Training and Hands on for Users

Make in India with value add

Digital Transformation From Sensors to Servers



Control Instruments FACTORY

Spread in 10,000 SFT factory in Gujarat

Manufacturing Control Panels, Skids

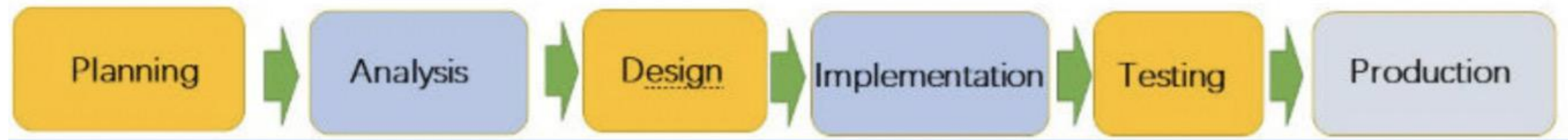
Manufacturing , Sensors Mil grade

Calibration facility of world standard

Panels Sensors Scada MES Software

Design Engineering

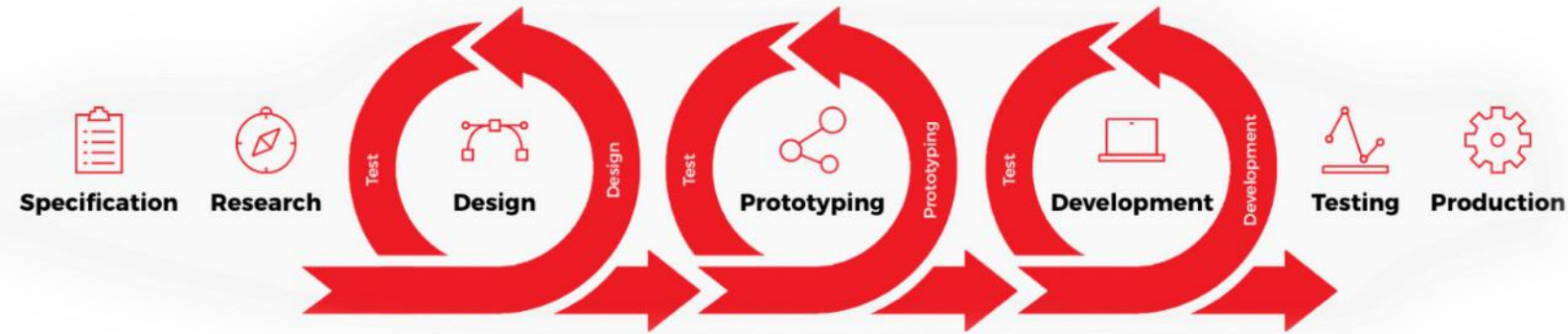
Hardware Development Process



<ul style="list-style-type: none"> Hardware Requirement 	<ul style="list-style-type: none"> Feasibility Study Bom Optimization 	<ul style="list-style-type: none"> Hardware Design Schematic PCB Design and Layout ID Design Mechanical Design 	<ul style="list-style-type: none"> Component Procurement PCB Fabrication Board Assembly Generate Mode 	<ul style="list-style-type: none"> Design Verification & Validation Certification 	<ul style="list-style-type: none"> Arrange Mass production Production Quality Control Cost-down Optimization
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<ul style="list-style-type: none"> Software Requirement 	<ul style="list-style-type: none"> Feasibility Study Resource Identification 	<ul style="list-style-type: none"> Detailed Software Design Test Strategy Document 	<ul style="list-style-type: none"> Software Library Code Application Code 	<ul style="list-style-type: none"> Integration Testing System Testing Acceptance Testing 	<ul style="list-style-type: none"> Production Testing Defect Report
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Hardware and Software Skills



Mixed Signal Design

- Precision analog and digital design with isolation
- FPGA / SoC based data acquisition and streaming
- Zynq UltraScale+ and other SoCs
- High speed digital designs
- USB 3.0, SPI, SDIO, I2S etc
- Custom IP Core development and testing

PCB Layout and Analysis : DFM/DFT

- HDI multi layer PCBs Layouts with blind & buried via
- Pre-Post SI simulation
- PI and Thermal simulation
- High Density Interconnect (HDI)
- Flex and Rigid Flex
- PCB Yield improvements
- Support for automated/semi-automated testability
- Test coverage improvements
- Cost Reduction



Industrial IoT

Evaluate your current Product & Service Portfolio

Architect your IoT Solutions

Build & Deploy your IoT Solutions

Build and Integrate Applications, IoT platforms

Integrate, Deploy & Manage Platform & Applications

Manage, Analyze

Embedded software design

- Bootloaders
- Bare metal peripheral drivers
- Operating systems (Embedded Linux, Android, FreeRTOS, Keil RTX, VxWorks RTOS)
- System interfaces, protocol stacks, development of device drivers
- Hardware dependent code and application code

Hardware design

- Multilayer PCB design
- Analogue design – sensor front ends,
- Audio, power amplifiers, DACs, ADCs
- High speed (Serial ATA, DDR3, DDR4, USB3.0, CSI, DSI)
- Embedded processors (Cortex–A5, A8, A9, A53, A72)
- Microcontroller applications (Cortex–M3, M4, M33)
- SBCs (Raspberry Pi, BeagleBone)
- Low power systems (MSP430, Cortex–M0, nRF52)
- Digital Signal Processing (TMS320C55xx, TMS320C674x)
- Industrial systems with MODBUS, CAN and Ethernet
- Design for EMC

Software Design

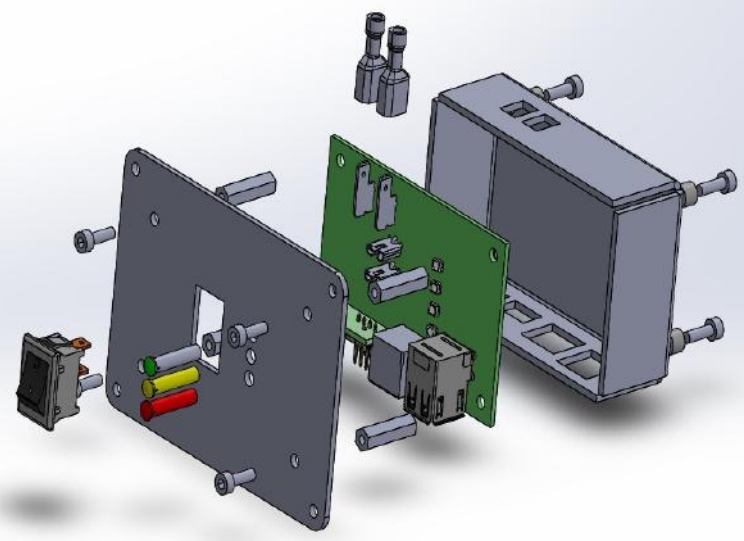
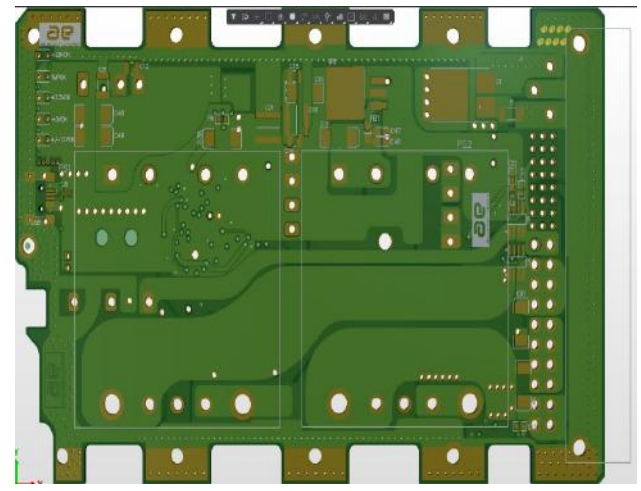
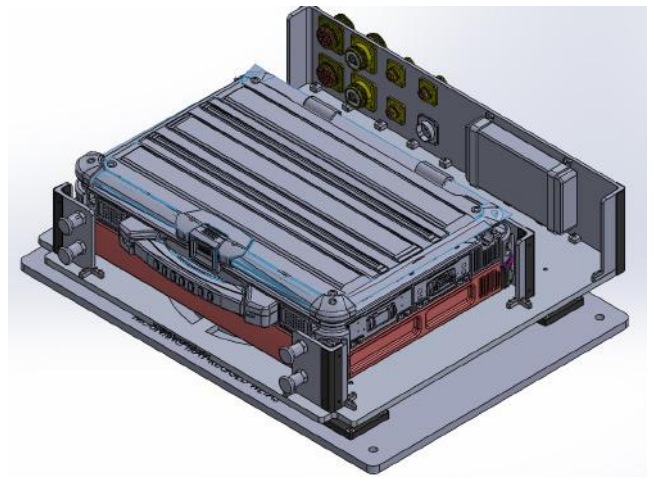
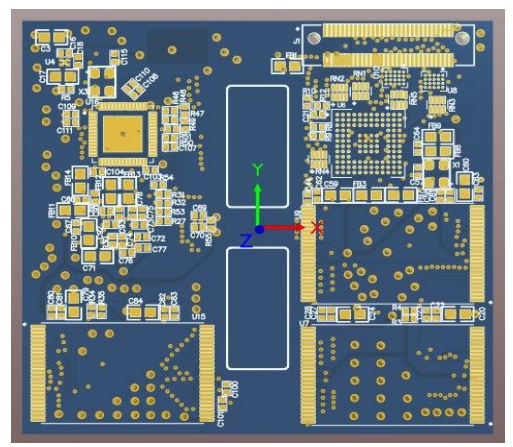
- Operating System and BSP / SSK kit functional testing
- Software functional/non-functional testing
- customize middleware or integrate modules for logic
- Device Driver development for standard peripheral .

Design Engineering

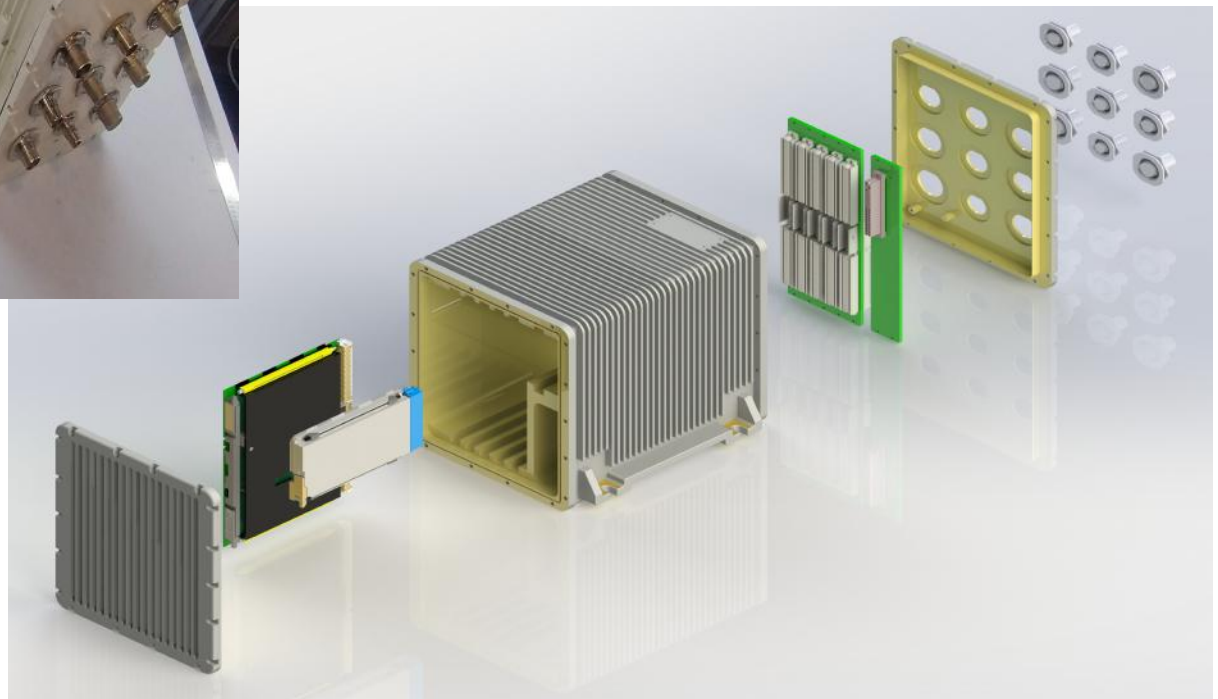


- VPX,VME,CPCI,XMC,PMC Modules Design
- PowerPC/Intel/ SBC, FPGA Based System
- High Speed ADC/DAC Modules, GbE,1553, Arinc429, Modbus.
- Analog, Digital and Discreet IO Modules
- Custom VPX / High Speed Signal Backplane Design
- Power Supply , AC-DC,DC-DC Power Supply Modules
- Microprocessor, Microcontroller, FPGA, DSP Boards
- Device Driver Development and Board Support Package
- Firmware Development and Software Development
- Tools: Cadence, Xilinx Vivado, Visual Studio, Python, SolidWorks
- PCB Design and Signal Integrity Analysis
- Application Software and GUI Development
- Test Jig Development , ATE System

Design Examples

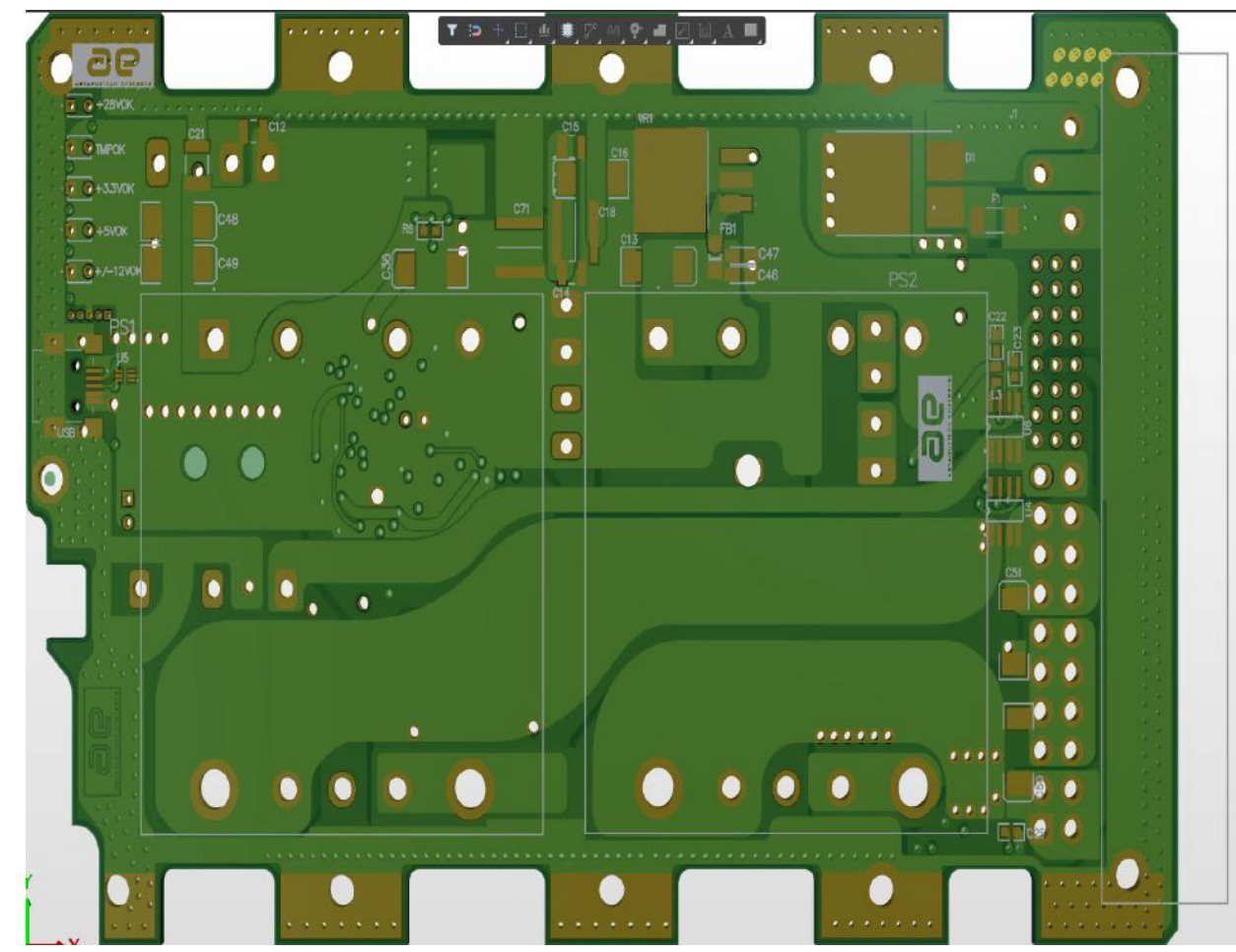
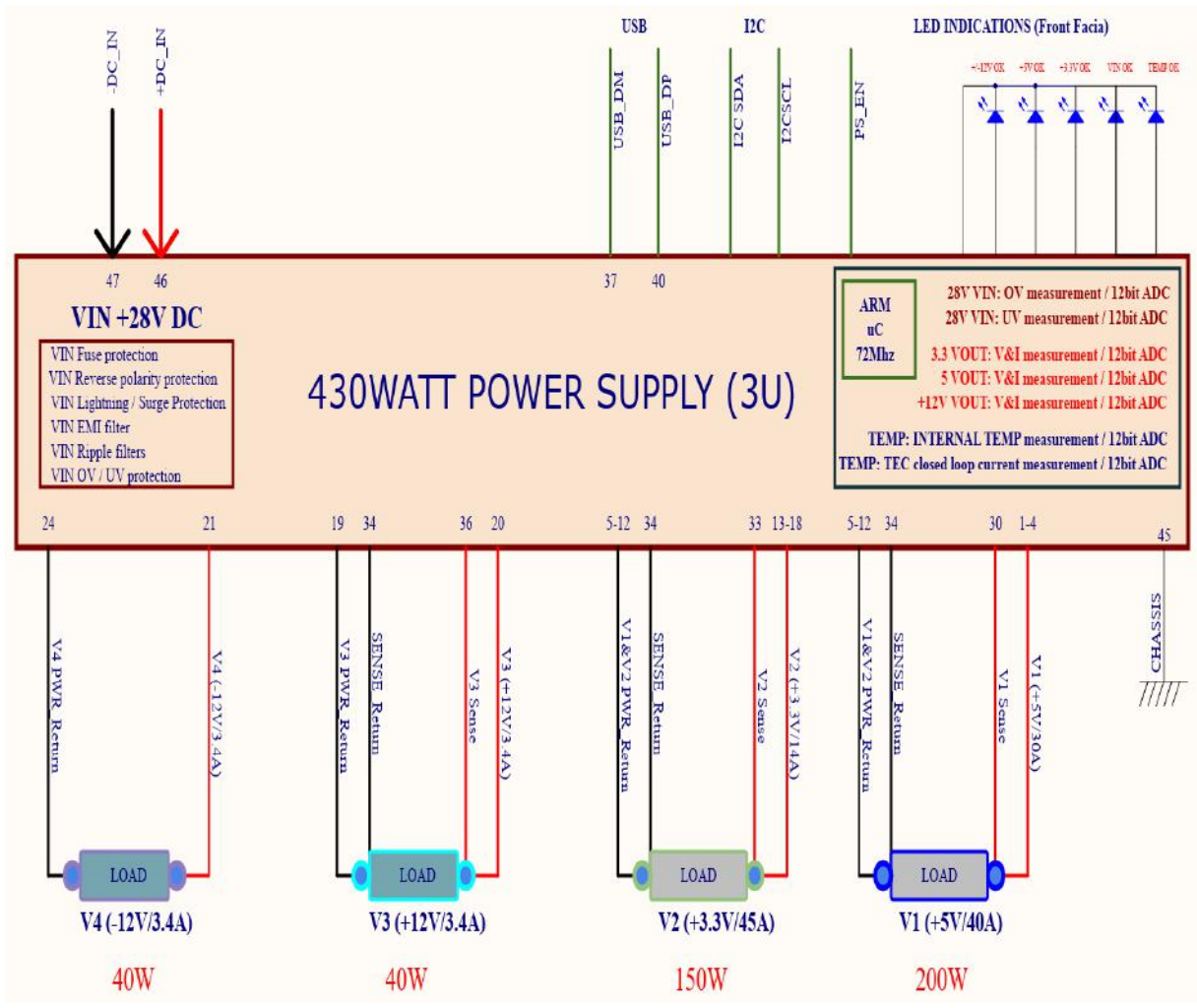


5 Slot Rugged Chassis -Custom

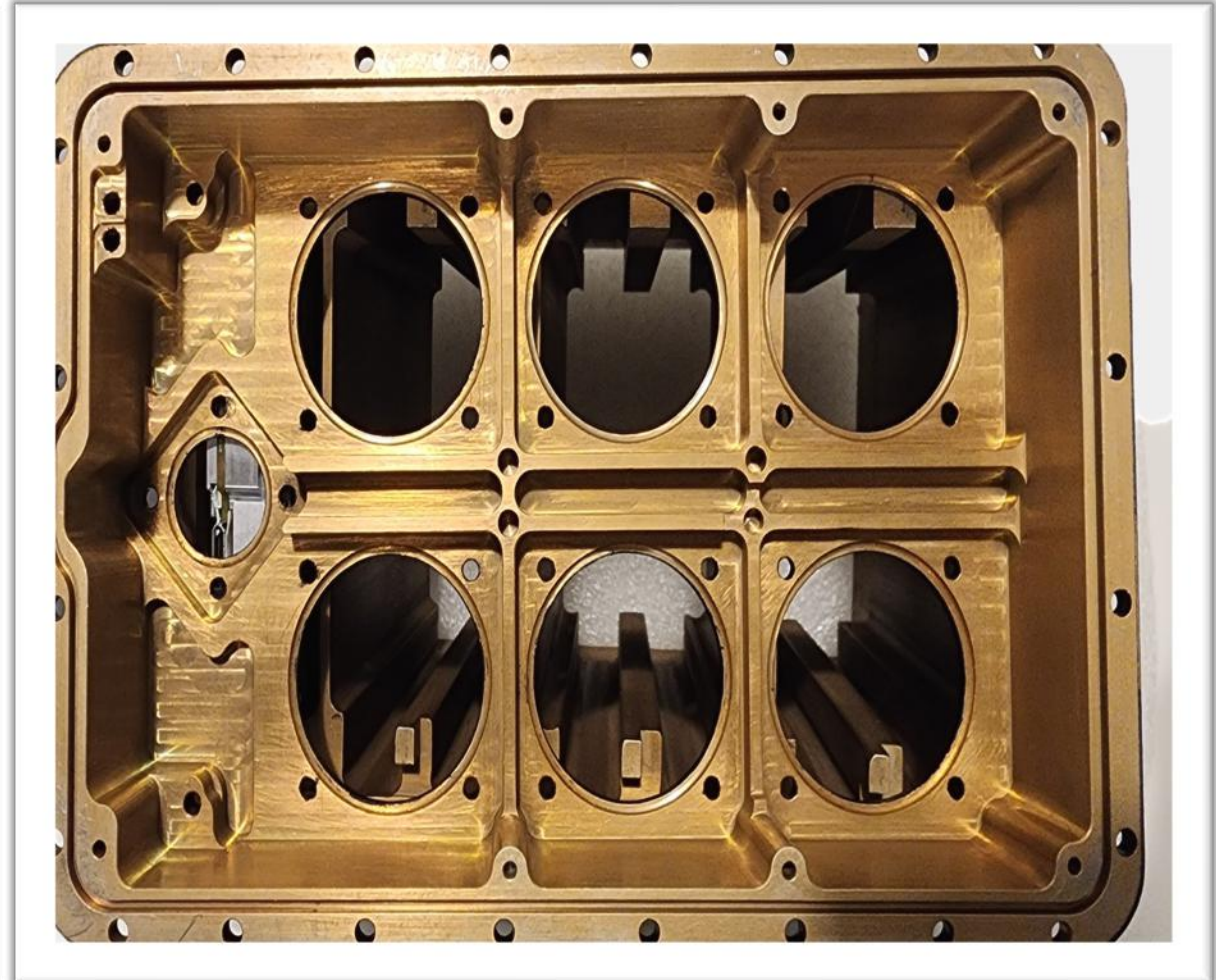


Rugged Custom Form Fit Replacement.

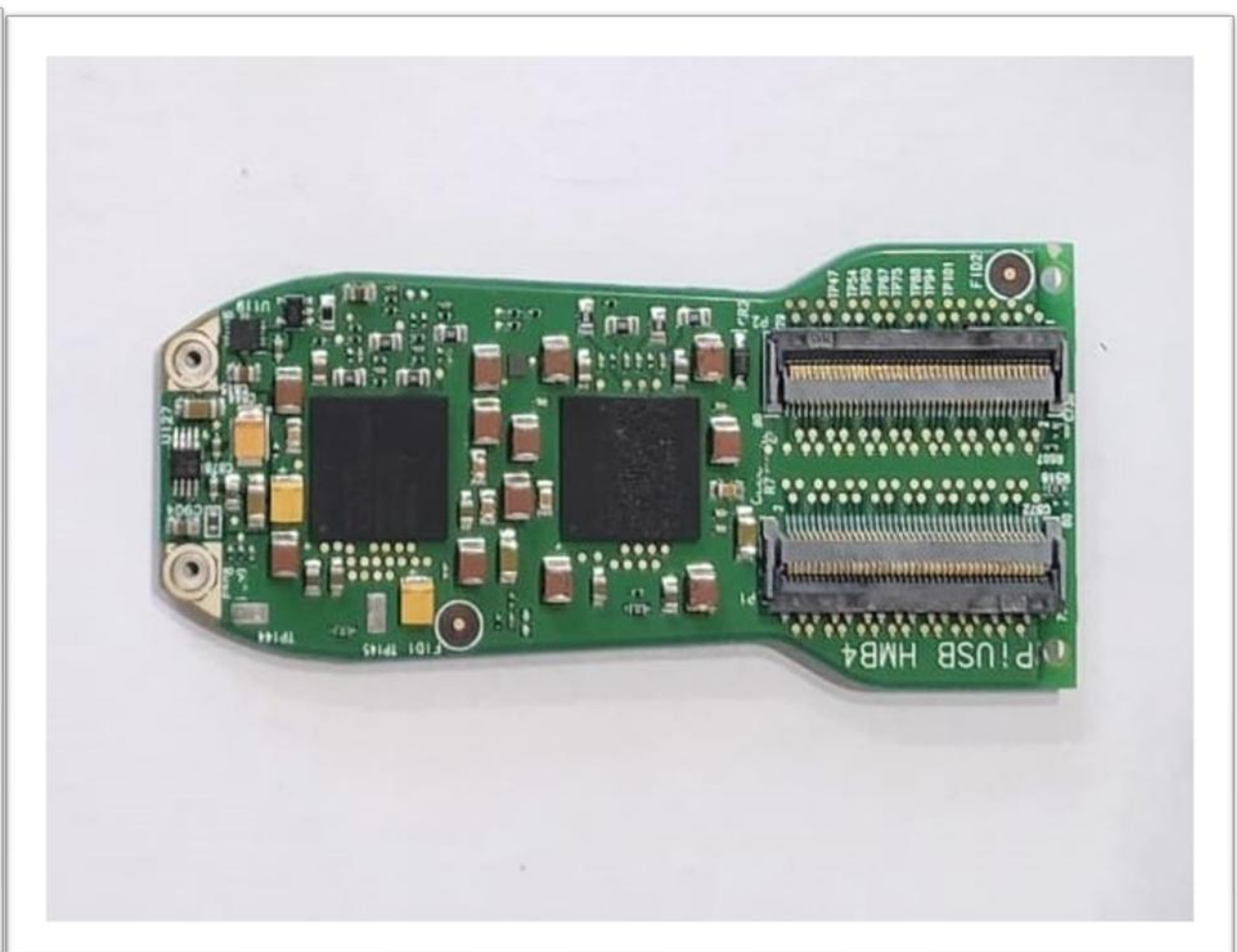
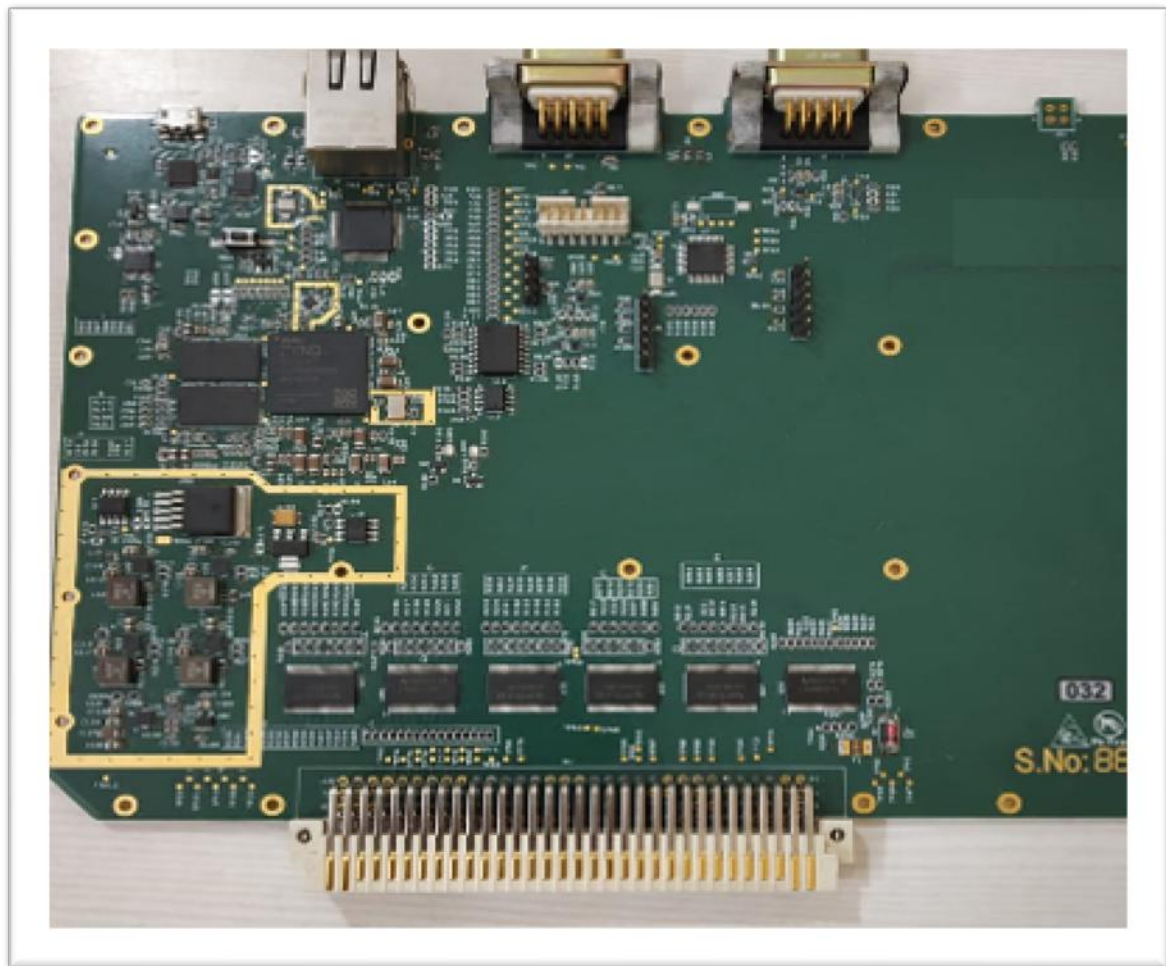
MIL Grade 430Watt 3U VPX Power Supply



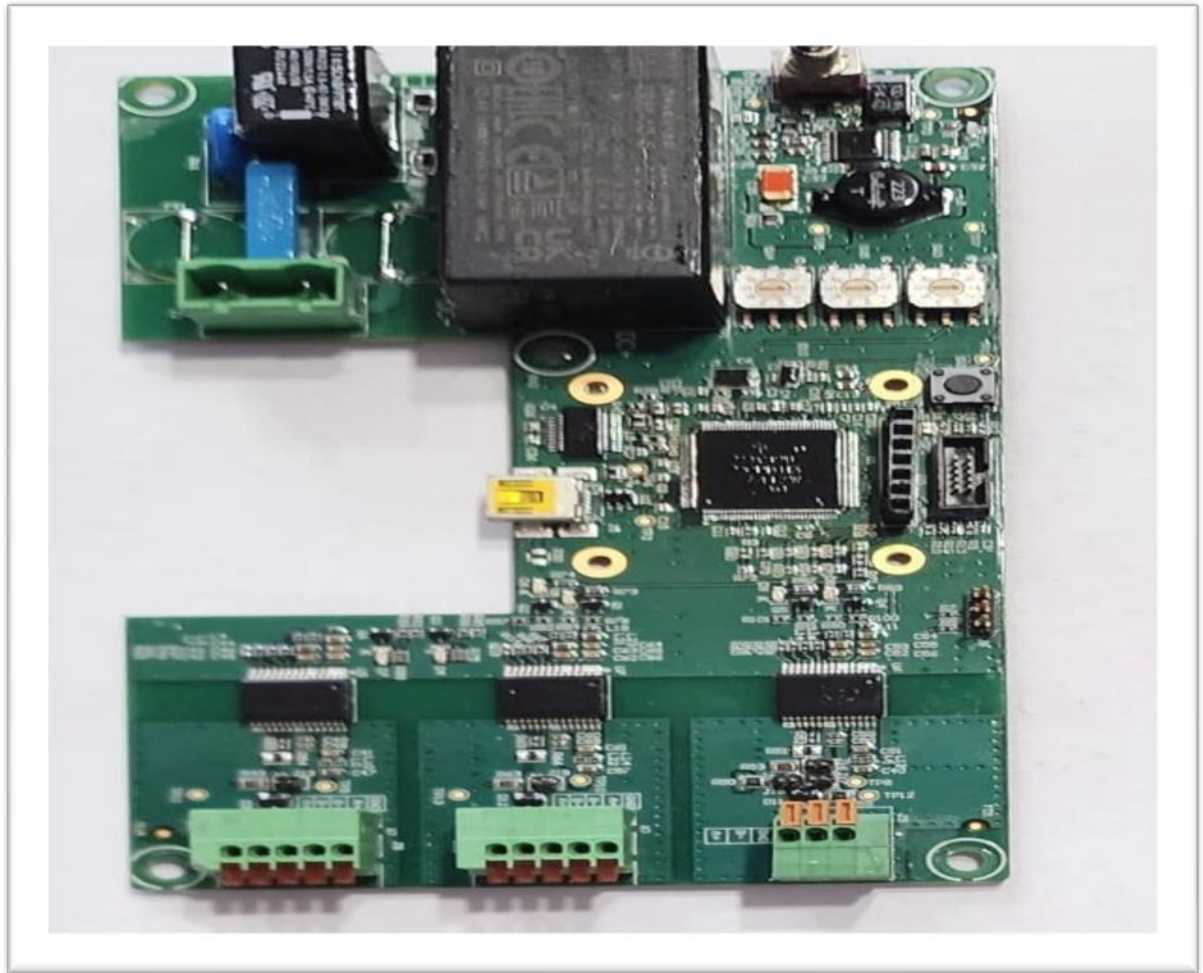
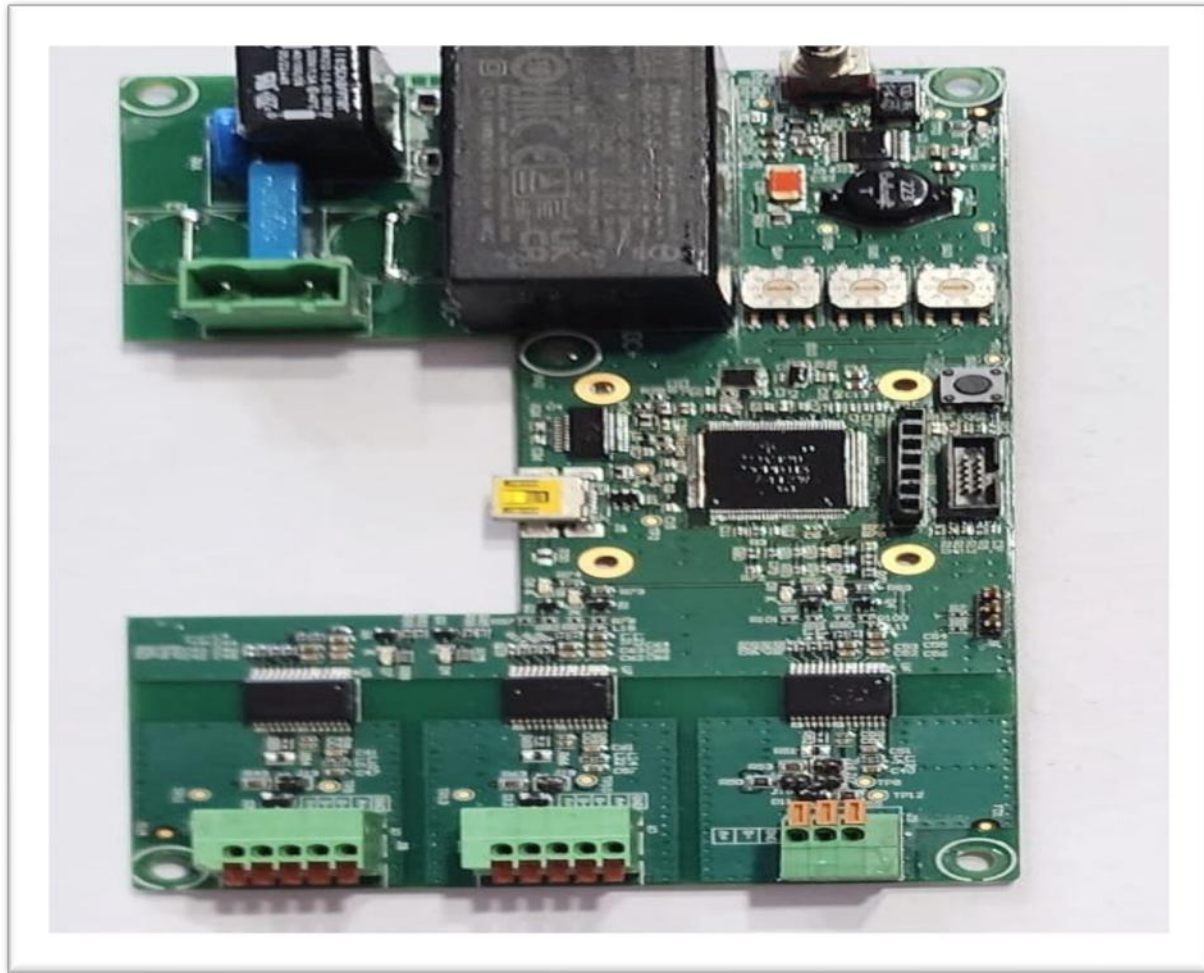
Mechanical Design & Mechanical Fabrications



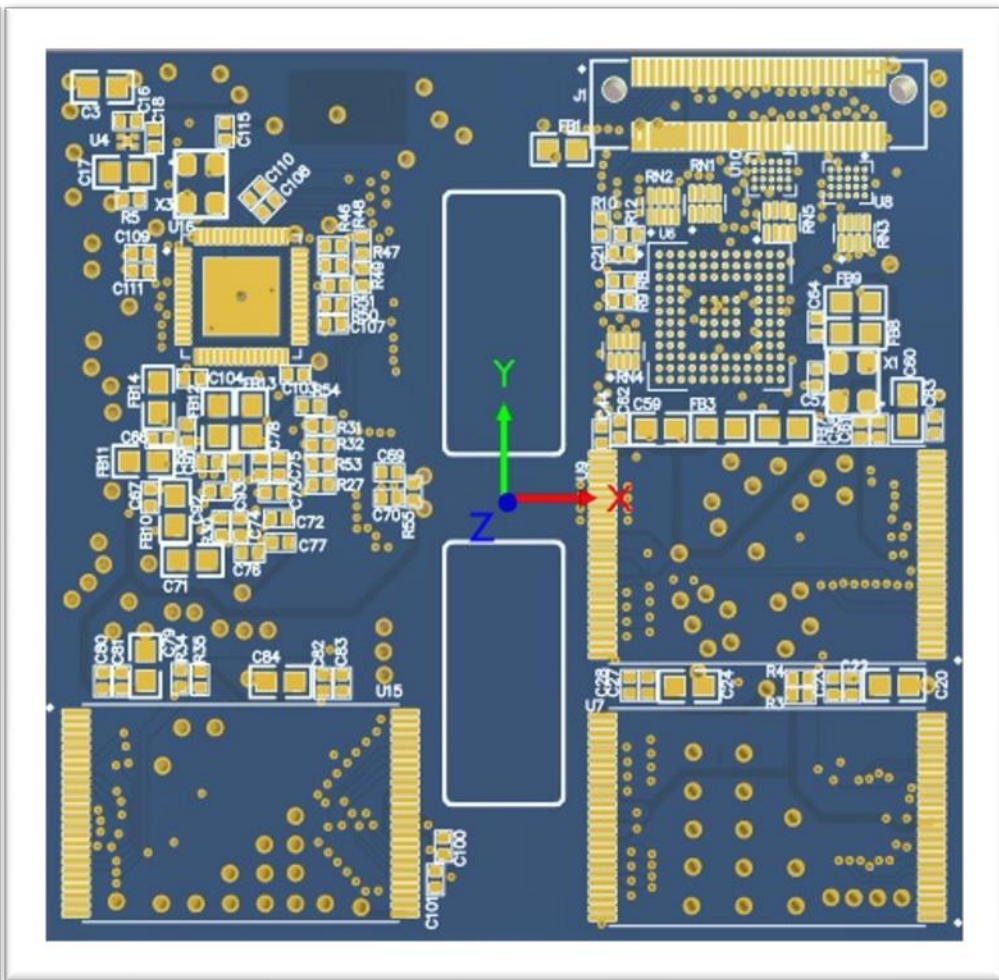
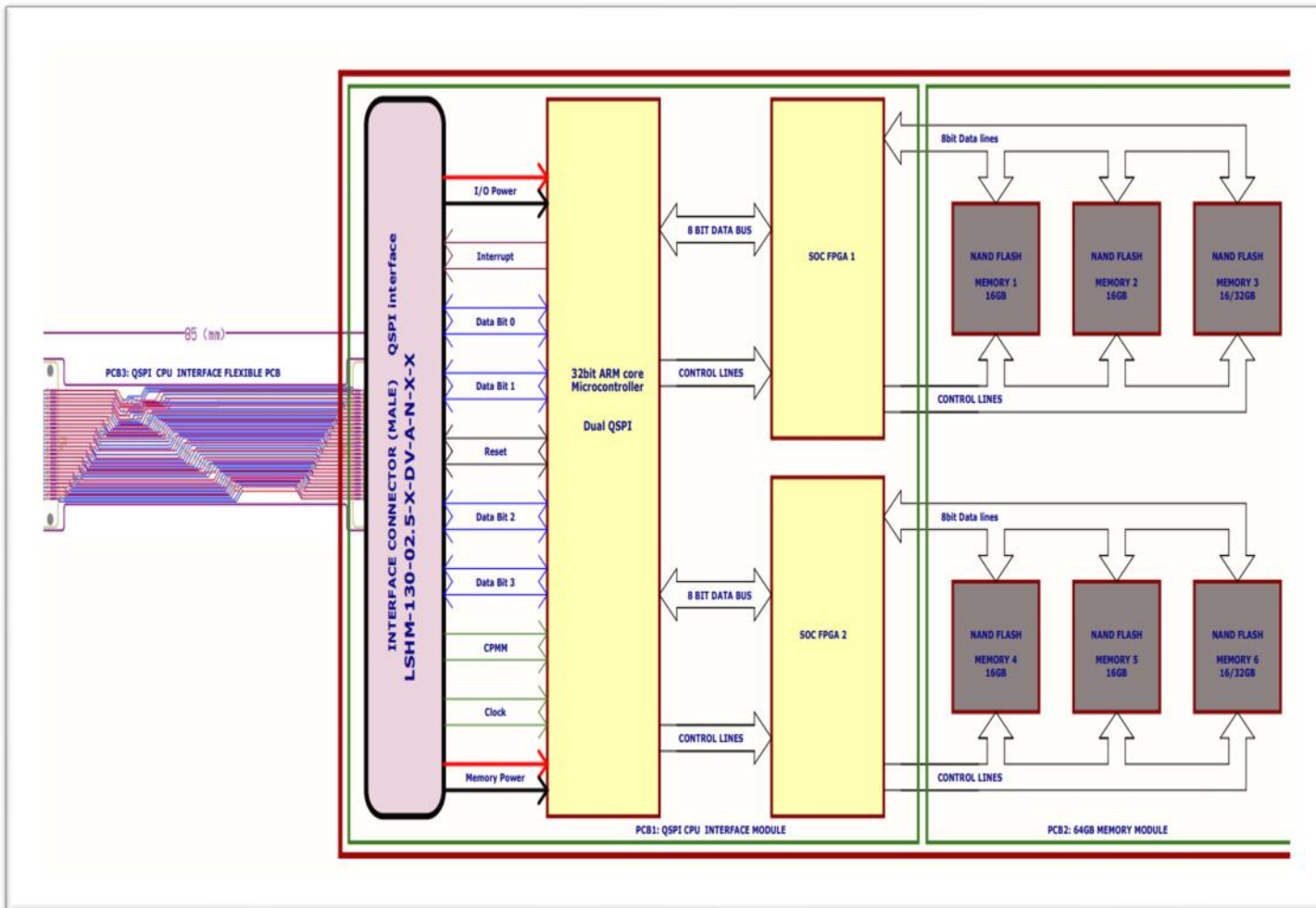
Single Board Computer (SBC) and I/O Module



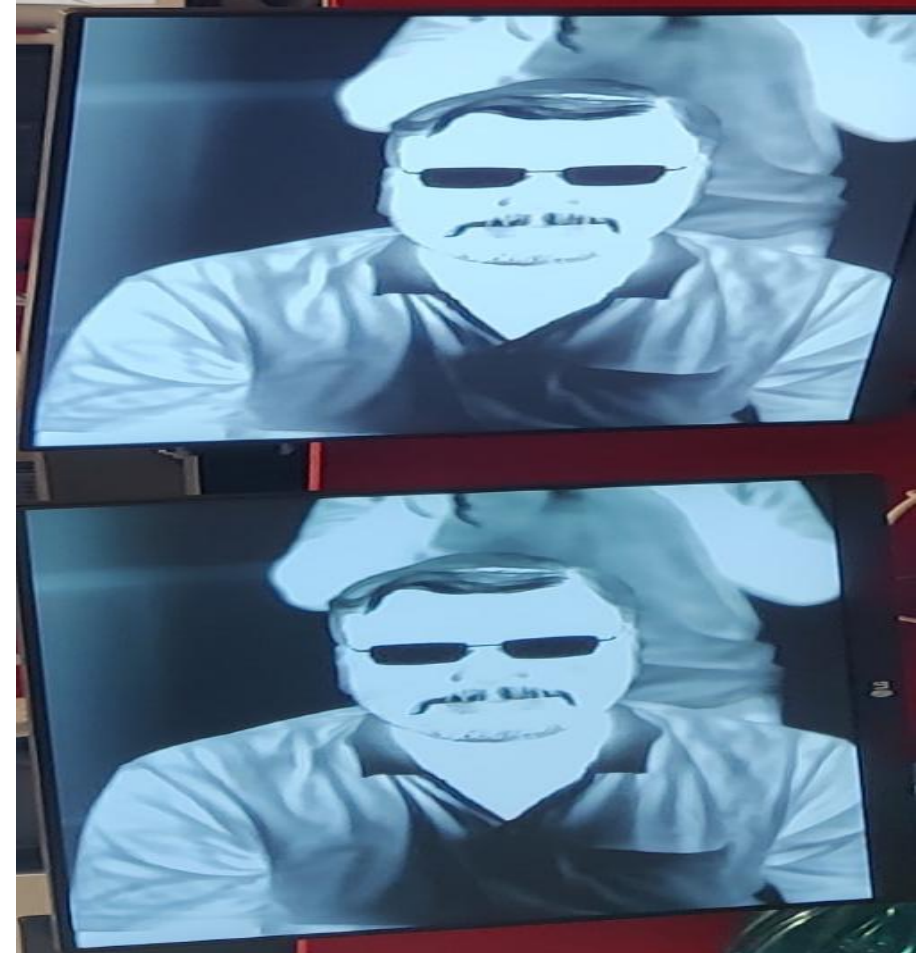
Isolated 4channel RS-422 Gateway with Controller



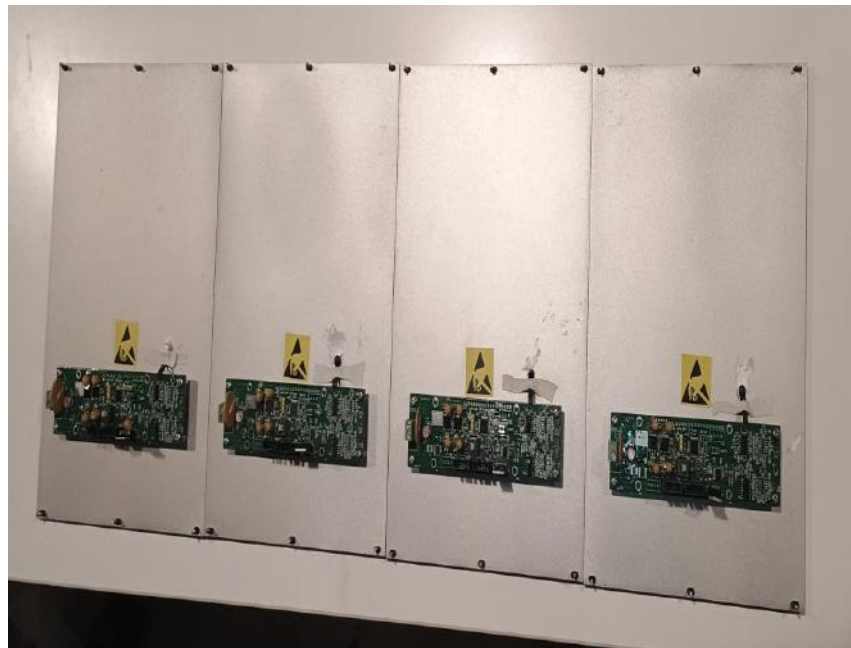
FPGA based 64GB Flight Data Recorder-MIL Avionics



Rugged Video splitter for IR Thermal Camera

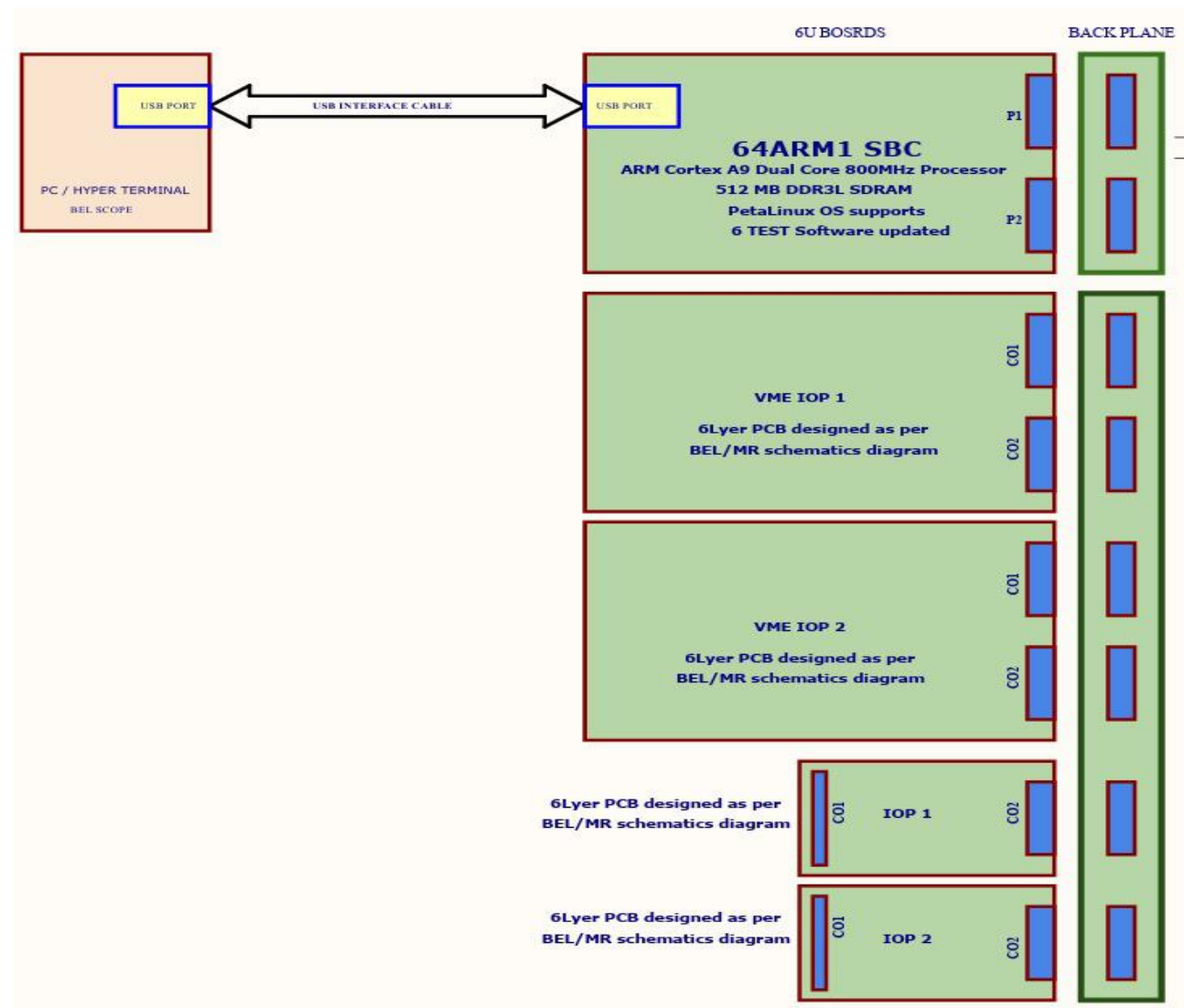


Fan control module (FCM) for enclosure Temp control



Microcontroller based controller with Temp sensors for driving & Controlling 3 or more Fans simultaneously with Status and Speed Control of Fans

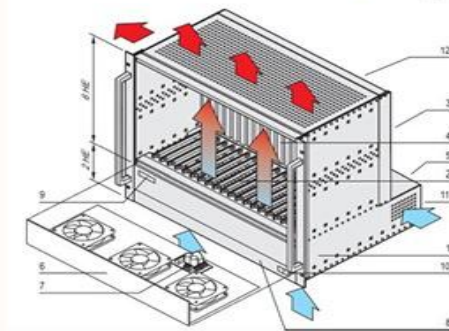
RADAR ATE UPGRADE



- System for vertical board mounting with board formats
 - Front: 6 U, 160 mm deep
 - Rear, rear I/O: 6 U, 80 mm deep
- Backplane VME64x
 - 21 slot, 6 U, with P0 plug
- PSU, open frame, 642 W (600 W at V_{AC})
- Heat dissipation by pull-out fan unit, from bottom to top; temperature-controlled by fan control module (FCM)
- Display module for DC operating voltages, fan and temperature alarm

DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, AI, with perforated top cover and base plate; front handles (RAL 7016), 19" bracket, front panels (RAL 9006)
2	21	Front slot, IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical board mounting (6 U, 160 mm deep)
3	21	Rear slot, IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical mounting of rear I/O boards (6 U, 80 mm deep)
4	1	Backplane VME64x for 6 U boards; 21 slots, with P0 plug (part no. 23201-553)
5	1	Power supply unit, open frame; 642 W (600 W at V_{AC}; part no. 11099-207)
6	1	Fan unit with 3 fans, 1.5 U (24 V_{DC} , 250 m ³ /h each, 148 cfm); temperature-dependent speed control; filter mat
7	1	Fan control module (FCM) for fan monitoring/regulating (part no. 23207-028)
8	1	Front panel 0.5 U, 84 HP;
9	1	Display module
10	1	Mains switch
11	1	AC mains input (IEC 320-C14 plug), mains filter, mains fuse
12	1	Cable harness to connect all system components



Project Title: BEL-FLYCATCHER-MR-ATE BLOCK DIAGRAM			
Sheet Name:			
Size: A3	Part Number:	Revision:	
Date: 8/7/2023	Time: 4:37:49 PM	Sheet * of *	
Drawn by: VELUSAMY	Reviewed by: NIDESH		
File:D:\BEL-MR-FLYCATCHER-ATE BLOCK DIAGRAM.SchDoc			

3M - 409, 3rd Floor,
3rd Main Road,
Kasturba Plaza,
Kasturba Nagar,
Bangalore,
Karnataka - 560043.

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Infrastructure



MECHANICAL ASSEMBLY

SYSTEM INTEGRATION

SOFTWARE DEVELOPMENT IMPROVISATION

CALIBRATION

ACCEPTANCE TEST PLATFORM

INSTALLATION

SMD REPAIR FACILITY



AdvanceTech

DISTRICT INDUSTRIES CENTER, VADODARA
(Government of Gujarat)
FIRST FLOOR, RAMANGANI BANGLA, 6, BUDOLJAL, ROAD, VADODARA,
PIN-390014, GUJARAT, INDIA. (For details visit www.dicvado.org)

ENTREPRENEUR MEMORANDUM FOR SETTING UP MICRO, SMALL OR MEDIUM ENTERPRISE

ACKNOWLEDGEMENT FOR PART-I

M/s. ADVANCE TECH CONTROLS PVT. LTD. HAS FILED MEMORANDUM FOR A SERVICE ENTERPRISE AT THE ADDRESS 63A, GDC, RAMANGANI BANGLA, VADODARA, PIN-390014, VADODARA, IN DISTRICT VADODARA, PIN-390014 FOR THE ITEM/ITEMS INDICATED BELOW AS STATED IN FORM NO. 1/28 AND ALLOCATED ENTREPRENEUR MEMORANDUM NO. AS BELOW:

MAIN TYPE OF SERVICE RENDERED
OTHER BUSINESS ACTIVITIES N.E.C.

Sl. No.	Type of service rendered	Capacity Per Annum (Qty. Unit)	Value date of production commencement of service
1	REPAIR & MAINTENANCE OF ELECTRONIC INSTRUMENTS, SECTION & INSTALLATION OF ELECTRONIC INSTRUMENTS		22/03/2018

DETAILS OF PLANT AND MACHINERY AS PER DATA WISE INVESTMENT (IN LAKH)

Sl. No.	Investment in Plant and Machinery	Date of Investment
1	53.000	01/03/2018

NOTE: THE ISSUE OF THIS ACKNOWLEDGEMENT DOES NOT BESTOW ANY LEGAL RIGHT. THE ENTERPRISE IS REQUIRED TO OBTAIN NECESSARY CLEARANCES/CONSENTS/REGULATIONS UNDER APPLICABLE REGULATIONS DISPLAYED UNDER THE LINK OF DISTRICT GOVERNMENT WEBSITE TO GOVERNMENT/ADMINISTRATOR/COURT ORDER.

DATE OF ISSUE: 09/03/2018

NATURE OF ACTIVITY: (MANUFACTURING-1 SERVICES-2) 2

CATEGORY OF ENTERPRISE: (MICRO-1 SMALL-2 MEDIUM-3) 3

ENTREPRENEUR MEMORANDUM NUMBER (PART - I): 24-018-22-18402

(First two digit = State, Next three digit = District code, Next eight digit = Nature of Activity, seventh digit = category of enterprise and last five digit are for Entrepreneur Memorandum)

DATE: 09/03/2018

PLACE: VADODARA

OFFICE SEAL: [Seal]

GENERAL MANAGER, DISTRICT INDUSTRIES CENTER, VADODARA.

To, ADVANCE TECH CONTROLS PVT LTD, ADVANCE TECH CONTROLS PVT LTD, 63A, GDC, RAMANGANI BANGLA, VADODARA, PIN-390014

Copy to: 1) District: Small Industries Service Institute, Harnabhai Chaudhari, 6th Floor, Income Tax Office, Ashram Road, Ahmedabad-380014



12232018 <https://udyogaadhar.gov.in/UA/FirstApplication.aspx>

UDYOG AADHAR

Udyog Aadhaar Memorandum

1. Aadhaar Number: 87813812617
2. PAN Number: VADJ28314
3. Name of Entrepreneur: ANIRAM GUPTA
4. Social Category of Entrepreneur: GENERAL
5. Gender: Male
6. Physically Handicapped: No
7. Name of Enterprise: ADVANCE TECH CONTROLS PRIVATE LIMITED
8. Type of Organisation: Private Limited Company

Location of Plant Details:

Sl. No.	Plot/Block No.	Name of Premises/Building/Village	Road/Street Lane	Pin	Area/Locality	City	Pin	State	District
1	63A	GDC, RAMANGANI BANGLA	Por	391241	VADODARA	GUJARAT	391241	GUJARAT	VADODARA

Official Address of Enterprise: 63A, GDC, RAMANGANI BANGLA, VADODARA, District: VADODARA, State: GUJARAT, PIN: 391241

2. Date of commencement: 22/03/2018

3. Previous Registration details if any:
Bank Details: IFSC Code: CITI000008, Bank Account: 901540288

4. Major Activity: MANUFACTURING

Sl. No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit Code	Activity Type
1	28	2810	28109	Manufacture of other electronic components &c.
2	28	2851	28517	Manufacture of electronic and optical products
3	28	2851	28517	Manufacture of measuring, testing, navigating and control equipment
4	35	3511	35111	Manufacture of industrial process control equipment

15. Investment (Plant & Machinery / Equipment): 53.00 Lakh
16. District Industry Centre: VADODARA

17. Present employees: 12
18. Investment (Plant & Machinery / Equipment): 53.00 Lakh
19. District Industry Centre: VADODARA

Declaration:
I/We hereby declare that information given above is true to the best of my knowledge. Any information, that may be required to be verified, shall be provided immediately before the concerned authority.

Mobile Apps (Beta Version) is available now for download: <https://play.google.com/store/apps/details?id=com.udyogaadhar>

Qualified MSME , NSIC,ISO Registrations Udyog Aadhar
Registration with MSME

<https://www.advancetech.in/contact/>



1 800 1212 515



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम



SERVING INDUSTRIES SINCE 1995

28 Years of Service