

**Make in India
Atmanirbhar Bharat 2047**

JSD
electronics

**ENGINEERING IN INDIA,
MANUFACTURING FOR
THE WORLD**



BROCHURE

JSD ELECTRONICS INDIA PRIVATE LIMITED

JSD Electronics delivers AI-powered solutions across IoT, Telematics, Fleet Management, Telecom, ITMS/PIS, Hardware Manufacturing, OEM/ODM Services, Custom Product Development, and Reverse Engineering

www.jsdelectronics.co.in

ABOUT US

JSD Electronics, founded in 2017, is an Indian electronics design and manufacturing company specializing in telematics, IoT, and power electronics solutions. Operating as an OEM and ODM and Self brand, JSD delivers end-to end capabilities—from in-house R&D and product engineering to manufacturing, deployment, and lifecycle support.

With a strong focus on indigenous innovation, JSD builds high-performance solutions for automotive, telecom, and iot & industrial sectors, enabling smarter, safer, and more connected systems.

COMPANY ANALYTICS



16+
Years of
Experience



50+
Products
Developed



8L+
Devices
Delivered



75K+
units/month
Production

WHAT WE DO

JSD Electronics provides an integrated suite of electronics products and services across six verticals:



TELEMATICS
SOLUTIONS



TELECOM
SOLUTIONS



IOT
PRODUCTS



ITMS / PIS



MEDICAL
ELECTRONICS



EV
SOLUTIONS

Across all verticals, JSD provides the complete value chain:



In house R & D,
SMT Line & QA Lab



Seamless Integration



All Certified
Compliances



Customization



Make in India



Dedicated Support

OUR MISSION

To create world-class electronics solutions driven by innovation and precision, with a relentless focus on customer delight, quality, and long-term partnerships.



OUR VISION



To become a global leader in IoT hardware, telematics, and power electronics by building world-class, indigenous technology solutions — driven by innovation, reliability, and manufacturing excellence.

OUR DIFFERENTIATION



INDIGENOUS DESIGN CAPABILITY

Full control over product architecture and customization



END-TO-END EXECUTION

From concept → design → manufacturing → deployment → support



MULTI-DOMAIN EXPERTISE

Telematics + IoT + Power Electronics



PROVEN SCALE & RELIABILITY

Large-scale deployments across industries



FOCUS ON QUALITY & PERFORMANCE

Designed for real-world, rugged environments

TABLE OF CONTENTS

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5 Our Clients

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OUR SOLUTIONS



AUTOMOTIVE & TELEMATICS SOLUTIONS

GPS tracking, AIS-140, EV telematics, fleet management, video telematics, asset trackers



TELECOM & NETWORKING SOLUTIONS

PoE injectors/switches/extenders, surge protection devices, supercapacitors, cables & assemblies.



IOT PRODUCTS

Intelligent Field Devices (IFD), smart water monitoring, Health Care IOT, smart irrigation.



ITMS/PIS

ITMS / PIS is a Smart technology that enhances transport safety, efficiency, and real-time fleet management.



EV SOLUTIONS

Smart telematics, battery monitoring, and real-time tracking for efficient EV fleets.



MEDICAL ELECTRONICS

Designing and developing advanced medical devices and healthcare IoT platforms, delivering reliable, high performance solutions

JSD SOLUTIONS

Innovation, execution, and customer delight — driving JSD Electronics to global standards

AUTOMOTIVE & TELEMATICS SOLUTIONS

JSD Electronics is a leading manufacturer of AIS-140 certified telematics devices and fleet management hardware, with over 800,000 devices deployed across India's commercial and government vehicle sector. Our telematics solutions are designed for rugged real-world environments and are compliant with all relevant government mandates.



**GB-140 2G
Telematics Device**

The **GB140** is an **AIS-140 certified**, resilient and compact vehicle tracking device. Featuring multiple I/O ports and IP65-rated casing for maximum durability, it supports storage of up to 40,000 tracking records and operates on a 9–36V power supply.

KEY FEATURES :

-  AIS-140 Certified
-  Production through MES
-  40K Packet Storage
-  CAN & BLE
-  IP65 Rated

USE CASES :

-  Advanced fleet management with real-time tracking
-  Driver behaviour monitoring and safety compliance
-  Commercial goods transport and government fleets

SPECIFICATIONS :

Parameter	Specification
Connectivity	2G GSM / GPRS
Power Input	9V – 36V DC
Data Storage	Up to 40,000 tracking packets
IP Rating	IP65
Interfaces	CAN Bus, BLE, multiple I/O ports
Positioning	GPS



GB440 4G EV Telematics Device

Parameter	Specification
Connectivity	4G LTE with 2G/3G fallback
Power Input	9V – 36V DC
Data Storage	40,000+ packets
IP Rating	IP67 (submersible)
Compliance	AIS-140 Certified, ROHS Compliant
Interfaces	CAN Bus, BLE, multiple I/O ports
Protections	Reverse polarity, overvoltage surge, load dump

The **GB440** is an **AIS-140 certified 4G** device engineered for advanced fleet management. IP67-rated with the multiple-hardware protections and cloud-ready FOTA capability.

KEY FEATURES :

-  AIS-140 Certified
-  FOTA Enabled
-  4G LTE with 2G/3G
-  GPS C-Panel
-  IP67 Rated

USE CASES:

-  Advanced fleet management with real-time tracking
-  Driver behaviour monitoring and safety compliance
-  Commercial goods transport and government fleets

SMART FEATURES :

-  FOTA Enabled
-  GPS Drift Control
-  Driving Behavior
-  Odometer



GB429 — 4G EV Telematics Device

Parameter	Specification
Connectivity	4G LTE
Power Input	9V – 36V DC
Data Storage	40,000+ packets
IP Rating	IP67 (submersible)
Compliance	AIS-140 Certified, ROHS Compliant
Positioning	GPS + BDS dual- constellation
Target Vehicles	Electric 2W, 3W, buses, trucks, last- mile EVs

Purpose-built for Electric Vehicles. Wide voltage range 9–100V supports all EV architectures. IP67 rated for all-weather performance. Ideal for 2W, 3W, buses, and trucks.

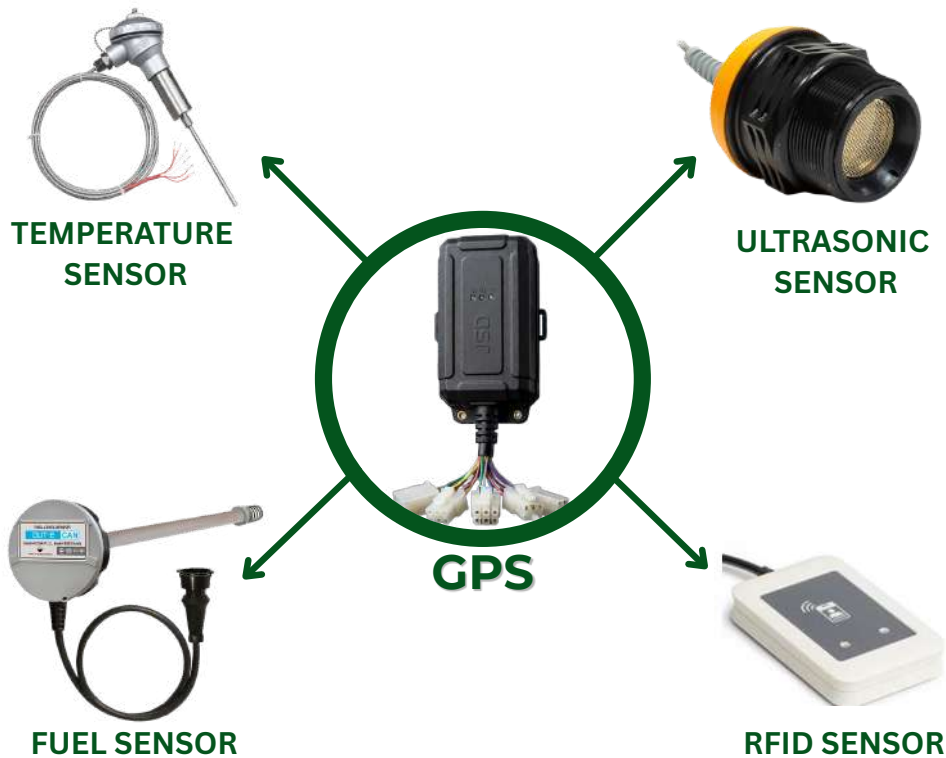
KEY FEATURES :

-  EV Purpose Built
-  4G Lite
-  IP67 Rated
-  9-100V Wide Range
-  GPS + BDS

USE CASES:

-  EV Fleet Management
-  EV Battery & Energy Monitoring (CAN Data)
-  Real-Time Vehicle Tracking & Security
-  Logistics & Delivery Operations (EV-based)
-  Predictive Maintenance
-  Data Analytics & Smart Mobility Insights

INTEGRATION WITH TELEMATICS DEVICE



C-PANEL – DEVICE CONFIGURATION & MANAGEMENT PLATFORM

Configure. Monitor. Manage. All from One Powerful Dashboard.

The JSD C-Panel is a centralized web-based configuration platform that simplifies the deployment and management of GPS tracking devices. It allows users to remotely configure devices, manage firmware, monitor connectivity, and customize operational parameters without manual intervention.



VIDEO TELEMATICS



MOBILE NETWORK VIDEO RECORDER

A rugged onboard surveillance solution that records, stores, and transmits video from multiple vehicle-mounted cameras. It enables real-time remote monitoring, GPS integration, live streaming, playback, and event-based recording to enhance fleet security, passenger safety, and operational efficiency.

FEATURES :

- ✓ 2CH/4CH
- ✓ HDD/SSD/TF CARD
- ✓ RS232/485

USE CASES:

- ✓ Public Transport
- ✓ School Buses
- ✓ Logistics Vehicles



DASHCAM

A Dashcam is a compact onboard camera that continuously records video from a vehicle while it is in operation. It captures road events in real time, providing reliable video evidence for accidents, disputes, driver behavior monitoring, and fleet management.

FEATURES :

- ✓ Front+rear camera.
- ✓ 1080p HD.
- ✓ G-sensor.
- ✓ Loop recording
- ✓ Night vision

USE CASES:

- ✓ Public Transport
- ✓ School Buses
- ✓ Logistics Vehicles



INTELLIGENT TRANSPORT MANAGEMENT SYSTEM

An **Intelligent Transport System (ITS)** is a technology-driven framework designed to improve the efficiency, safety, and sustainability of transportation networks. It integrates advanced communication, information, and sensor technologies into transport infrastructure and vehicles to create smarter, more connected transportation systems.

KEY FEATURES :

- ✓ Data Acquisition
- ✓ Data Processing
- ✓ Data Communications
- ✓ Data Distribution
- ✓ Information Utilization



SOLUTION FOR COMMERCIAL HEAVY VEHICLES



PASSENGER INFORMATION SYSTEM

A **Display** refers to a visual output device or medium that shows data, images, or text for the purpose of conveying information to a user. Displays are commonly used in a wide variety of technologies and environments, from consumer electronics to public information systems

KEY FEATURES :

- ✓ IP65
- ✓ Multiple Sizes
- ✓ Content display – Picture, Text and Video



USE CASES :

- ✓ Road Traffic & Parking
- ✓ Buses/Train

PIS SYSTEM



EV SOLUTIONS

As India accelerates its EV transition, JSD Electronics is positioned as a complete EV hardware ecosystem partner, covering BMS IoT, EV charger controllers, EV telematics, wire harnesses, and EV charging cable assemblies.



BMS IoT Module

JSD's **BMS IoT Module - Battery Management System** integrates Battery management hardware with real-time cloud connectivity, enabling remote fleet operators and OEMs to monitor individual cell health, state of charge (SOC), state of health (SOH), temperature, and fault conditions — all via the IoT dashboard.



KEY FEATURES

- ✓ **Cell Chemistry Support** : LFP, NMC, NCA, LTO
- ✓ **Cell Monitoring** : Individual cell voltage, temperature, SOC, SOH estimation
- ✓ **Connectivity** : 4G LTE + BLE 5.0 for local diagnostic access



EV Charger Controller

JSD's **EV Charger Controller** board supports both AC Level 2 and DC fast charging configurations. Built with OCPP 1.6/2.0 protocol compliance for network management, dynamic load balancing, and remote firmware updates.



KEY FEATURES

- ✓ **Charging Protocol :** OCPP 1.6 / OCPP 2.0 compliant
- ✓ **Dynamic Load Balancing:** Multi-charger smart load distribution
- ✓ **Metering :** Built-in energy metering (kWh)
- ✓ **Charging Mode :** AC Level 2 (3.3kW–22kW) & DC Fast

APPLICATIONS

- ✓ Public charging stations
- ✓ Fleet depot charging
- ✓ Workplace EV charging



EV Wire Harness & Charging Cable Assemblies



EV High-Voltage Wire Harness

HV safety rated (600V+)
IATF 16949 quality
Custom routing for 2W/3W/4W EV platforms



EV Low-Voltage Control Harness

BMS, motor controller, display, sensor wiring.
Custom connectors.
EV-grade insulation



Type 2 AC Charging Cable

IEC 62196-2 Type 2. 32A.
7.4kW single phase / 22kW 3-phase.
Various cable lengths



Type 1 AC Charging Cable

SAE J1772 Type 1. 16A/32A
Compatible with Japanese/American
EV models



DC Fast Charge Assembly

CCS Combo / CHAdeMO compatible cable
assemblies for DC charger manufacturing



Solar DC Wire

UV-resistant PV cables for EV solar charging
integration.
TÜV certified

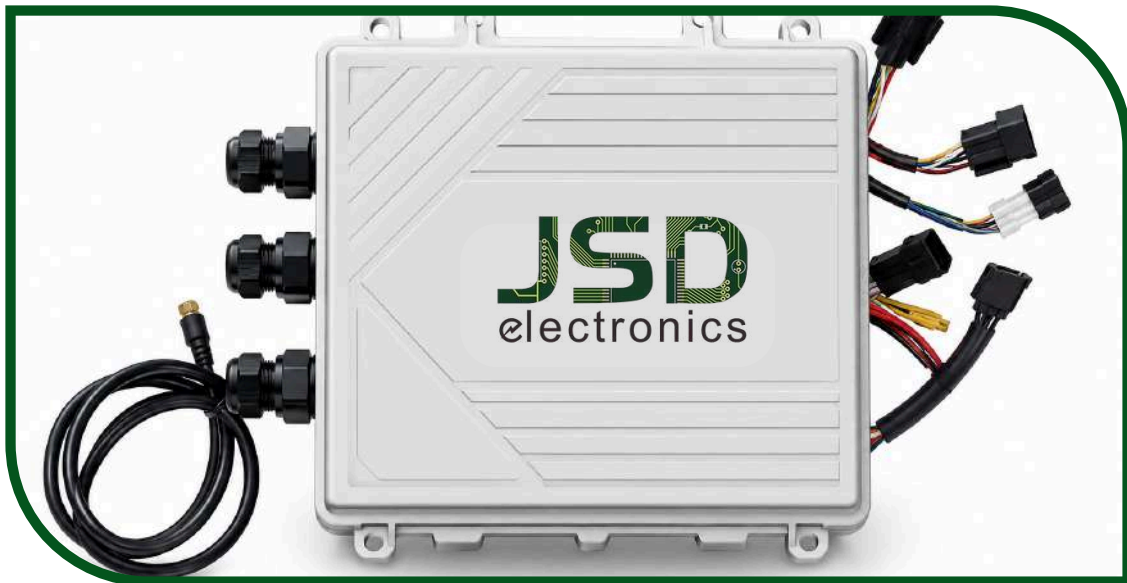
IOT & SMART INFRASTRUCTURE

JSD builds end-to-end IoT frameworks with devices, sensors, and dashboards. They provide real-time monitoring, remote management, automation, and predictive maintenance for smart healthcare and cities.



Intelligent Field Device (IFD) Platform

JSD's IFD is a versatile IoT gateway designed for remote monitoring and control of distributed field assets — deployed across smart cities, utilities, railways, agriculture, and industrial applications.



KEY FEATURES

- ✓ **Connectivity** : 4G LTE, NB-IoT, Wi-Fi, RS485/Modbus RTU
- ✓ **I/O** : Multiple digital + analog I/O; configurable for sensors, actuators, meters
- ✓ **Cloud** : Secure MQTT/HTTP cloud integration. REST API. OTA updates
- ✓ **Power** : Wide-range DC input

USE CASES :

- ⚡ Substations Monitoring and controlling
- ⚡ Tunnel and street Light Monitoring and controlling
- ⚡ WaterPump & Bore well Monitoring and controlling
- ⚡ Lift and Escalator Monitoring and controlling

MEDICAL ELECTRONICS SOLUTIONS

JSD Electronics has proven capability in designing and developing advanced medical devices and healthcare IoT platforms, delivering reliable, high performance solutions for both domestic and international markets.



MEDICAL NB-IoT GATEWAY

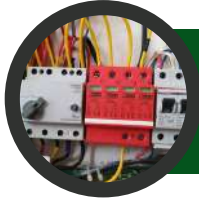
- ✓ Remote patient monitoring via NB-IoT
- ✓ **Supports:** Blood Pressure, Pulse Oximetry, Weight , Glucometer, Secure cloud connectivity.
- ✓ Export ready (US market validated).

SLEEPING DISORDER DEVICE

- ✓ Prevents Airways from Narrowing
- ✓ 100% Safe ,Natural & Non-Invasive treatment
- ✓ Effective for Preventing snoring & sleep apnea
- ✓ Easy to put on & comfortable to wear



TELECOM & NETWORKING SOLUTIONS



Surge Protection Device (SPD)

Surge Protection Device (SPD) is a critical component in electrical systems designed to protect equipment from voltage spikes or transients caused by lightning strikes, power surges, or other sudden changes in electrical power.



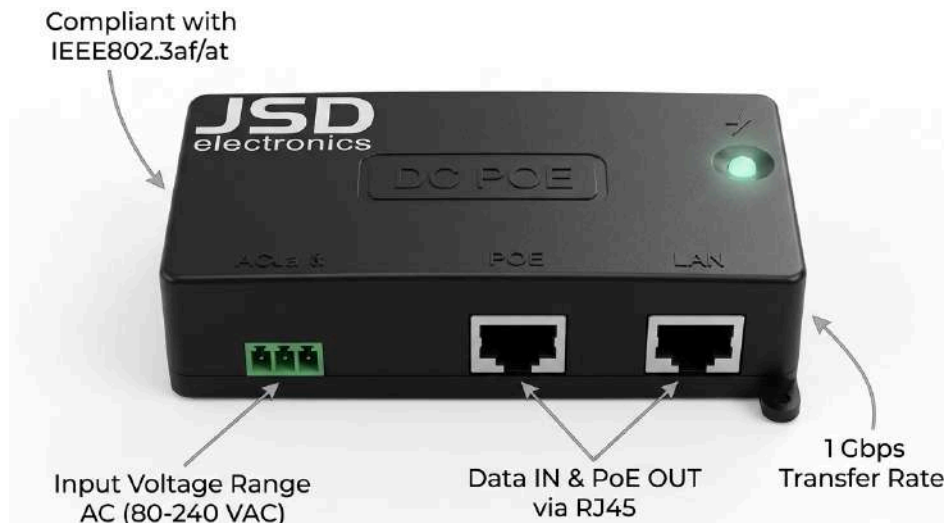
USE CASES :

-  Telecom & Data Centers
-  Communication Systems & Antennas
-  Electrical Distribution Systems



Power Over Ethernet (PoE) Injector

POE- CBDP24151- PoE Injector CBDP24151 is a device. No need to buy a PoE switch, you can use the existing non-PoE switch or non-PoE router to connect PoE devices with the help of PoE devices. The main purpose of CBDP24151 is to provide PoE to outdoor telecom products such as Access Point, Radio etc. It is compliant with the EMI/EMC.



USE CASES :

-  Telecom & Data Centers
-  Communication Systems & Antennas

TYPES OF POWER OVER ETHERNET(POE)



POE INJECTOR



POE SPLITTER



POE EXTENDER



POE SWITCHES

SUPER CAPACITOR MODULES AND CHARGER/DG CRANKING UNIT

Supercapacitor modules use activated carbon electrode for high performance. These super cap modules along with isolated charger are used for DG triggering in place of the battery which results in improved performance of the DG triggering in terms of product life and consistency.



PRODUCT COMPONENTS

- ✓ Hybrid Super Capacitor Module
- ✓ Smart Battery Charger
- ✓ Intelligent Cranking Controller
- ✓ Optional IoT Monitoring

KEY ADVANTAGES

- ✓ Super Capacitor assists during cranking, reducing battery stress
- ✓ Improved cranking performance that doesn't degrade over time
- ✓ Reduced maintenance requirements and emergency service visits
- ✓ Optional remote monitoring for better system visibility

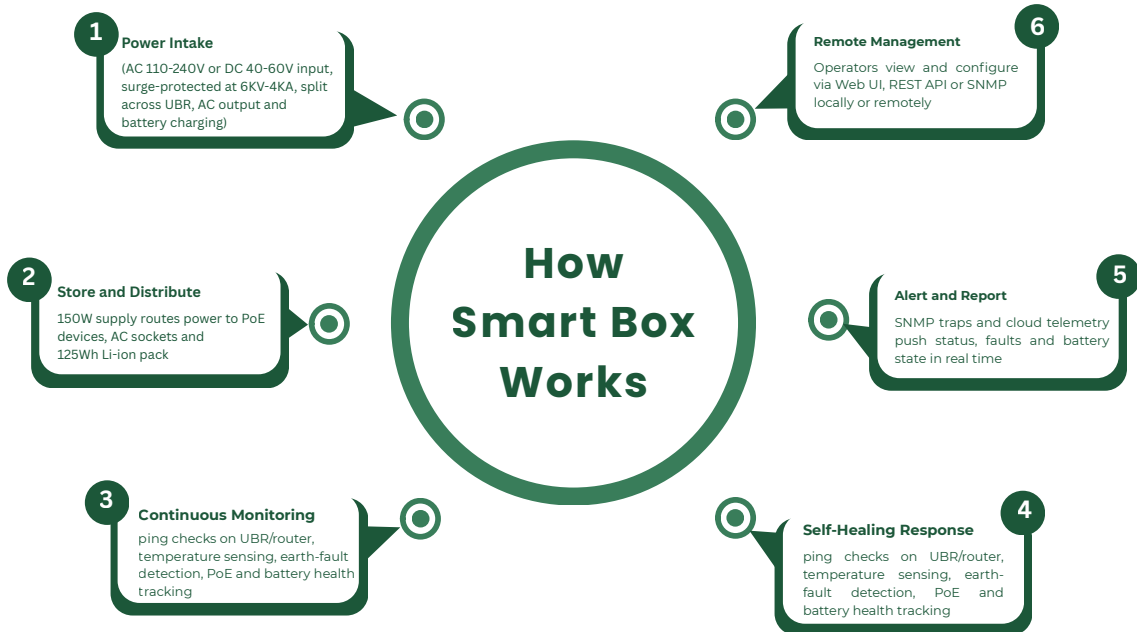
SMART ONE-BOX POE SUPERVISOR

A fully integrated power, networking, and monitoring solution for remote and unmanned sites—delivering resilience, autonomy, and full visibility in a single IP40 enclosure

KEY SPECIFICATIONS AT A GLANCE

Smart Box combines a modular power supply, Li-ion battery backup, managed PoE networking, and remote monitoring All-in-one enclosure designed for harsh, remote environments

			
150W	125Wh	3h 20m	6KV-4KA
Modular Power Supply	Li-ion Battery	Max Backup Time	Surge Protection
AC or DC input, surge-protected at 6KV-4KA	13-cell pack with 80% depth of discharge	At 30W continuous load	PCBA-level protection plus earth-neutral fault monitoring



USE CASES :



ISP & Telecom Nodes

Keeps remote base stations and last-mile PoE links alive through outages, with auto network recovery



Surveillance & CCTV Backbone

Powers PoE cameras with battery backup so recording never stops during a mains failure



Industrial & Remote Sites

Wide -20°C to 70°C operating range suits factories, substations and unmanned outdoor cabinets



Transport & Fleet Hubs

Cellular-connected telemetry keeps depot and roadside networking equipment online and monitored

NETWORKING CABLES & ASSEMBLIES

We are one of the leading manufacturer of Power Cables, Fire Survival Cables, Armoured Cables, Control Cables, Networking Cables, Automobile Wires, Battery Cables, Panel Wires .Work Area: Insulation Wires, Moulding,Harness & Connectors, Networking Cables, and Data Cables Power Cables



Cat 6 / Cat 6A LAN
Cables



Customised
Networking Cables



Coaxial Cables



Optical Fibre Cables



Telecom Multi-pair
Cables



Power Cables



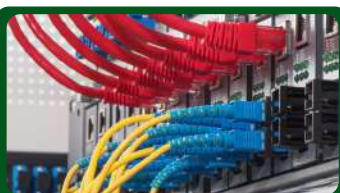
Solar DC Wire



EV Wire Harness



Copper Terminated
Assemblies



Networking Cables



Optical fiber
Terminated Assemblies



Automotive Wire
Harness

USE CASES

-  Security Systems
-  Ethernet Networking (LAN)
-  Audio and Video Transmission

OUR SERVICES



CUSTOMISED PRODUCT
DEVELOPMENT



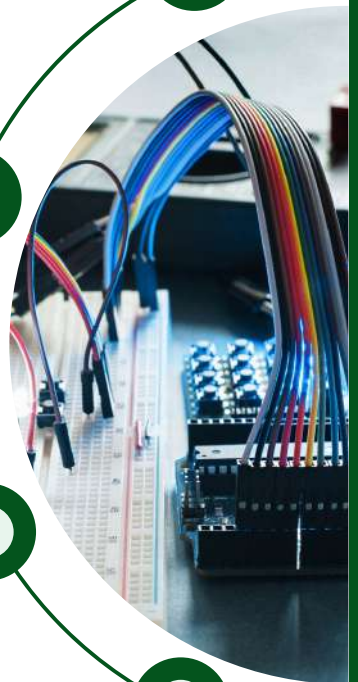
REVERSE ENGINEERING
SERVICES



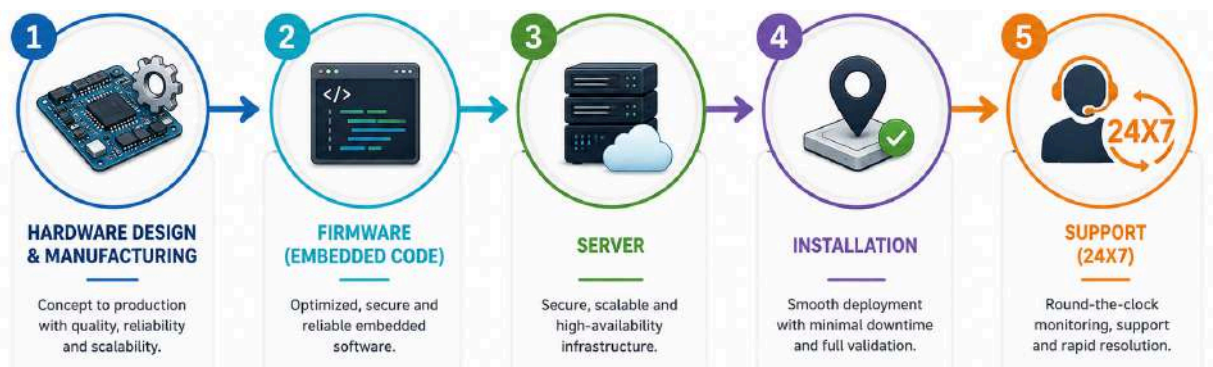
ANNUAL MAINTENANCE
CONTRACT AMC SERVICES



OEM & ODM
SERVICES



Engineering Innovation from Concept to Deployment





Customised Product Development



Requirements analysis and technical feasibility study



PCB schematic and layout design (Altium / KiCad)



Firmware and embedded software development



Prototype fabrication, testing, and validation



Certification support: AIS-140, CE, ROHS, BIS



Mass production ramp-up and quality validation



OEM & ODM Services



Client provides design; JSD manufactures under client's brand with full NDA protection



JSD designs and manufactures; client sells under their brand. Reduces R&D cost and time-to-market



JSD products sold under the JSD Electronics brand with full warranty and support



Reverse Engineering Services

JSD Electronics offers professional reverse engineering services — systematic analysis of existing electronic products to enable improvement, indigenisation, interoperability, and cost reduction of 30-60%.

KEY FEATURES



Product Improvement



Cloning or Imitation



Interoperability

COMPLETED PROJECTS



SMART USB PROTECTION DEVICE

Overvoltage, undervoltage, & overload protection. Instant power cut with auto reconnect on normal voltage return



DC UPS — POWER PLUS

Smart battery backup for routers, set-top boxes. Keeps Wi-Fi stable during power cuts without manual intervention



SMART WEAPON ASSET TRACKING

Studied the internal architecture of a firearm platform to conceptually develop a compact embedded asset-tracking module for authorized defense use. The solution focuses on theft detection, unauthorized movement alerts, and secure inventory monitoring while preserving the equipment's original functionality.



Annual Maintenance Contract AMC Services

JSD Electronics is a single stop service provider for a number of OEMs. We provide instant support through a variety of channels (web, chat, phone, e-mail) through a proper channelized helpdesk/Support tea

SUPPORT CHANNELS



Online Support (web, chat, phone, e-mail)



Offline Support (Field Visit)

OUR AMC SERVICES INCLUDE



Hardware & Software support
for Telematics & Automotive
GPS Tracker | Dashcam



Hardware & Software support for
Telecommunications devices
SPD | PoE| Wire & Cable

OUR COMMITMENT

JSD Electronics is committed to building world-class electronics from India, aligned with

Make in India

Atmanirbhar Bharat

Viksit Bharat 2047



“Engineering in India. Manufacturing for the World.”

SCALE & CAPABILITIES



750,000+

AIS-140 devices manufactured



Experience across

All vehicle categories (EV + ICE)



Strong presence in

Automotive and Telecom sectors



In-house

R&D, SMT manufacturing, and QA lab



ISO-based processes; moving toward

Automotive-Grade Standards



Proven expertise in

Product Indigenization

Why JSD Electronics ?



ISO Certified Quality



Indigenous Design



In house R&D, SMT
Line & QA Lab



AIS-140 Certified



Proven Client Base



End-to-End
Execution



Scalable Capacity



Make In India

OUR CLIENTS



CERTIFICATIONS & STANDARDS



LET'S BUILD THE FUTURE, TOGETHER

*Connect with our team to explore how
JSD Electronics can power your next
product or platform.*



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