



MANUFACTURERS OF DEVICE & SOLUTIONS

DIGITAL TRANSFORMATION

Hardware • Connectivity • Automation • Intelligence

MAKE IN INDIA • CE • RoHS

Engineering the bridge between field data and business decisions.

Shreem Digital delivers electronic digital hardware and end-to-end transformation solutions for plants, utilities, energy systems and smart infrastructure.

FIELD HARDWARE	CONVERTERS Signal & Protocol	PLC / RTU	SCADA / HMI	IOT
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MEASURE

Capture process, electrical and environmental data.

CONNECT

Modbus, Ethernet, 4G and IoT interfaces.

TRANSFORM

Automate workflows and turn data into insight.

DIGITIZATION • DIGITALIZATION • DIGITAL TRANSFORMATION (Connecting the Unconnected)

Digital Hardware Portfolio

A practical, modular portfolio for reliable industrial deployment and integration with PLC, SCADA, cloud and enterprise applications.

AI / AO / DI / DO I/O MODULES

Industrial analog & digital I/O for sensing, control and remote automation.

SENSORS & GAS MONITORING

H₂S, CO₂, NH₃ and other environmental / process sensing solutions.

MODBUS & ETHERNET

Reliable field connectivity for PLC, SCADA and distributed control architectures.

4G & IoT GATEWAYS

Remote telemetry, MQTT connectivity, dashboards, alarms and data logging.

SIGNAL / PROTOCOL CONVERTERS

Bridge legacy signals and protocols into modern digital systems.

DIGITAL TRANSFORMATION

RPA, OCR, OPC and Power BI workflows for operational intelligence.

Representative product families

I/O & CONTROLLERS	AI • AO • DI • DO • Remote I/O • DIN-rail modules
SENSORS	H ₂ S • CO ₂ • NH ₃ • AQI • Temperature • Humidity • UV • Lux • Process sensing
INTERFACES	Modbus RTU/TCP • Ethernet • 4G • MQTT • Signal conversion
INTEGRATION	PLC • SCADA • OPC • APIs • Dashboards • Historian • Power BI

Designed for the field. Ready for the network.

Acquisition, Control & Embedded Expansion

Selected product families and capabilities from the source brochures.

DIGITAL INPUT

SD-PIHAT-16DI

16-channel opto-isolated digital signal acquisition for **Raspberry Pi**.

ANALOG INPUT

SD-PIHAT-8AI

Industrial data acquisition from pressure, temperature and flow sensors.

ANALOG OUTPUT

SD-PIHAT-8AO

8-channel 0-10V output for actuators such as VFDs and proportional valves.

DIGITAL OUTPUT

SD-PIHAT-8DO

8 relay-isolated outputs; MOSFET variant provides solid-state switching.

4-CHANNEL DAQ

SD-4AI-16-&-24BIT-V1.0

4-20mA, 0-5V and 0-10V inputs with selectable 16/24-bit ADC.

UNIVERSAL I/O

SD-GW-4G+IO

Configurable DI/AI and DO/AO channels with MQTT, RS485 and optional Ethernet.

Raspberry PIHATS

Measurement Portfolio

Environmental, electrical and process monitoring options described in the source brochures.

TEMPERATURE & HUMIDITY

SD-SN-TnH family
Modbus, Ethernet, Wi-Fi, BLE and analog variants,
plus display and duct options.

VPD & OUTDOOR

Outdoor louvre-type VPD sensor
Specifies 0-20 kPa VPD with
temperature/humidity measurement.

LUX / LIGHT

Outdoor LUX combinations
Specified models support measurements up to
200,000 Lux.

UV 290-390 nm

SD-SN-UV-M
290-390 nm UV sensing with isolated Modbus
RTU RS485.

AIR QUALITY

Outdoor environmental products
Combinations of temperature, humidity, CO₂ and
particulate matter.

BUSBAR TEMPERATURE

SD-SN-BBT
Continuous 24/7 busbar and industrial
temperature monitoring using master/slave
connectivity.

SENSORS PORTFOLIO

Field-to-Cloud Transport & Protocol Conversion

Connect legacy, serial, analog and Ethernet systems into modern digital architectures.

TTL / UART ↔ RS485

SD-CN-TTL-RS485-V1.0

Bidirectional conversion with flow control and TX/RX indication.

RS232 ↔ RS485

SD-MD-RS232-RS485

Bridges RS232 devices to long-distance RS485 networks.

MODBUS RTU ↔ TCP

SD-CN-1M1TCP-3 / -5

Converts Modbus RTU to Modbus TCP and supports multiple destination servers.

MODBUS ↔ WI-FI

SD-CN-1MWIFI

Modbus RTU to Wi-Fi conversion with software configuration.

MODBUS ↔ ANALOG

SD-CN-M-2AO

Converts Modbus RTU Master data to analog output.

UART ↔ ETHERNET

SD-UART TTL to Ethernet Converter

TCP/UDP communication with web-based configuration.

Communication options

MODBUS RS485

Industrial field communication for sensors, I/O and gateway networks.

MODBUS TCP / ETHERNET

Network integration for PLC, HMI, SCADA, BMS and connected systems.

WI-FI / BLE / 4G / MQTT

Selected sensors and gateways support wireless and remote telemetry options.

Connected by Design

A complete data path from sensor and actuator signals through converters and industrial networking to digital operations.

FIELD SIGNALS

4–20 mA • 1–5 VDC • Digital I/O • Pulse / status signals

PROTOCOLS

Modbus RTU / TCP • Ethernet • MQTT • OPC integration

REMOTE

4G telemetry • Web dashboards • Mobile access
• Alerts

FIELD HARDWARE

Sensors, PLCs, HMI and industrial I/O capture operational conditions and signals.

EDGE LAYER

Gateways aggregate, store and transport field data using Ethernet, Wi-Fi or 4G.

PROTOCOL LAYER

Modbus RTU, Modbus TCP, MQTT, TCP/UDP and serial converters connect heterogeneous systems.

SCADA / HMI

Operational visibility and centralized monitoring from connected field data.

ERP / DASHBOARD

Standardized operational data for business reporting and management dashboards.

Transformation roadmap

CONNECT	COLLECT	CONTROL	ANALYZE	OPTIMIZE
Connect instruments and systems.	Collect field data.	Control and monitor.	Turn data into insight.	Improve operations.

The result: Better visibility, faster response, less manual effort and a stronger foundation for continuous improvement.

Where Digital Transformation Delivers

Digital hardware and connected architectures for demanding environments.

RENEWABLE ENERGY

Plant monitoring, inverter / balance-of-plant data, weather and energy analytics.

POWER & GRID

Substation monitoring, energy meters, transformer data, remote I/O and alarms.

OIL & GAS

Metering skids, flow / pressure / temperature, gas detection, PLC/SCADA and IoT.

WATER DISTRIBUTION

Flow, pressure, tank levels, pump status, leak monitoring and remote telemetry.

COLD CHAIN

Temperature, humidity, alarms, asset tracking and compliance reporting.

SMART AGRICULTURE

Greenhouse climate, irrigation, soil / environmental sensing and automation.

GRID & UTILITIES

Digitize distributed assets, meter data, field status and remote operations.

INDUSTRIAL AUTOMATION

Modernize machine and process data with scalable I/O, conversion and control.

SMART CITY / INFRASTRUCTURE

Outdoor environmental and air-quality sensing for distributed urban infrastructure.

BUILDINGS / BMS

Environmental sensors, Wi-Fi/Ethernet connectivity and building management integration.

Smart City • Smart Agriculture • Water

Distributed sensing, connectivity and scalable architectures.

SMART CITY

Outdoor environmental and air-quality sensing for distributed urban infrastructure.

SMART AGRICULTURE

VPD, temperature, humidity and LUX monitoring for greenhouse and precision-agriculture applications.

ETP / WTP / STP

Connected sensing, I/O, gateways and protocol conversion can form the digital monitoring layer.

ENVIRONMENTAL

Outdoor louvre-type and indoor environmental monitors support continuous local or remote monitoring.

REMOTE TELEMETRY

4G, Wi-Fi and Ethernet options enable data movement from distributed sites.

SCALABLE ARCHITECTURE

Start with sensors and I/O, then add gateways, dashboards and enterprise integration.

FROM FIELD DATA TO DIGITAL DECISIONS

MEASURE	ACQUIRE	CONVERT	CONNECT	INTEGRATE	VISUALIZE	AUTOMATE
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From Data to Decisions

Industrial data and business automation combined to move from manual monitoring to measurable, connected operations.

RPA

Automate repetitive office and operations workflows.

OCR

Extract structured information from documents, forms and reports.

OPC

Connect industrial data sources to standardized software layers.

POWER BI

Build dashboards, KPIs, trends and management reports.

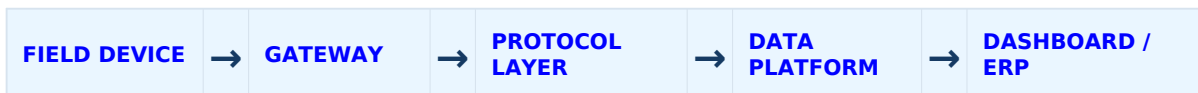
IoT / MQTT

Stream field data to remote platforms and applications.

SCADA

Centralize control, alarms, trends, events and operator visibility.

IT / OT DATA PATH



Project customization

Other configurations can be designed and supplied for customer requirements.



One Partner. One Digital Vision.

Shreem Digital provides full-scale digital transformation solutions—from industrial electronic hardware and sensor interfaces to connectivity, automation, IoT and analytics.

ENGINEERED HARDWARE

Industrial I/O, sensors, converters and gateways.

OPEN CONNECTIVITY

Modbus, Ethernet, 4G, MQTT and integration-ready interfaces.

SYSTEM INTEGRATION

PLC, SCADA, OPC and enterprise data connectivity.

DIGITAL INTELLIGENCE

RPA, OCR, Power BI, dashboards and analytics.

LET'S BUILD YOUR DIGITAL SYSTEM

Tell us about your plant, utility, process or business workflow. We can help define the architecture, hardware, connectivity and analytics layer.

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