



INDUSTRIAL INTELLIGENCE

DBR77 IoT System



Capabilities & Connectivity

Data Collection & Integration

IRIS77 enables seamless integration with all factory systems:

PLC & Industrial Controllers

Direct connectivity to automation systems

Robots & Machinery

Real-time sensor data from equipment

IoT Sensors

Multi-protocol support for sensor networks

Manual Workstations

Status tracking via sensors and Mobile App

ERP Systems

Bi-directional data synchronization with ERP, MES, WMS, CMMS

Third-Party Systems

Custom integrations via APIs & protocols

Supported protocols: MQTT, OPC UA, Modbus, PROFINET, REST APIs, HTTP, Ethernet/IP.

Key Applications



Predictive Maintenance



Production Optimization



Energy Management



Quality Control

Technical Specifications

Category	Specification	Details
Hardware	Processing	Industrial-grade ARM processor with real-time capabilities
Hardware	Memory	4GB RAM, 64GB SSD (expandable)
Hardware	Power Input	10-24V DC, up to 2A with peripherals
Hardware	Dimensions	280 x 150 x 100 mm (DIN-rail mountable)
Hardware	Operating Temperature	-10°C to +60°C
Hardware	Certifications	CE certified; PSE (Japan) and MIC/TELEC pending
Connectivity	Ethernet	RJ45 (PoE capable), 2x
Connectivity	WiFi 6	802.11ax, 1x
Connectivity	LoRaWAN	SX1262 (Hub + End-Device modes), 1x
Connectivity	RS485	Terminal, 1x
Connectivity	24V Digital Input	Isolated dry contact, 8x
Connectivity	M12 connectors	Industrial round connectors, 4x

Software Platform

- **Operating System:** Linux-based embedded OS with RTOS option depending on hardware variant
- Edge processing: Docker container support
- AI Runtime: TensorFlow Lite, ONNX models
- APIs: REST, MQTT, gRPC
- Web-based dashboard with real-time visualization