



BROCHURE

Swarm-IoT-Gateway

Dynamic Ratings

Distributed by AKRIBIS





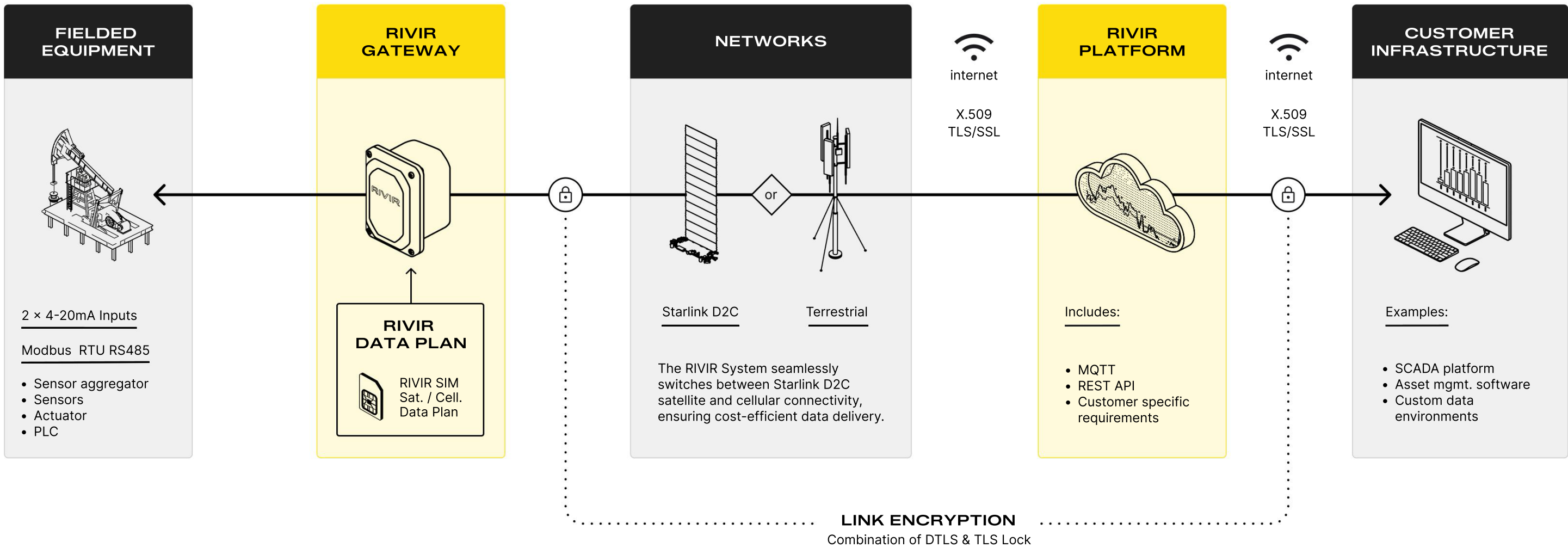
The RIVIR R200 hybrid IoT gateway is built for remote sites, patchy or poor coverage areas, and equipment that can’t afford to go offline. It provides reliable, low-cost data connectivity for sensors, data loggers, and industrial assets anywhere you operate.

The R200 has a unique dual-connectivity design. It uses terrestrial cellular as the primary communication method when available, and automatically falls back to the Starlink Direct-to-Cell (D2C) satellite network if terrestrial tower coverage drops out. That means your data keeps flowing even when assets move beyond the edge of the network, operate permanently in remote locations, or when terrestrial services fail. For distributed operations, the R200 helps maximize uptime, keep data costs under control, and maintain consistent visibility and control across your fleet of assets. The R200 enables IoT applications previously rendered technically or economically non-viable.

RIVIR R200 GATEWAY FEATURES

- ▶ Implements a session-less data transfer protocol standard for security and to minimize over-the-air data requirements
- ▶ Connects to the RIVIR Platform \ API-first system for commissioning, deploying, managing, operating devices, and accessing data
- ▶ Compliant with LTE Cat 1.bis
- ▶ Cost-effective, secure data network connection
- ▶ Integrated internal antennas
- ▶ RIVIR Edge Compute configures and executes business logic directly on gateways to further reduce round-trip data
- ▶ Integrated single-band GNSS receiver and antenna
- ▶ Connects up to 255 devices via MODBUS RTU - PLCs, sensors, actuators, etc.
- ▶ Built-in device telemetry. Onboard reporting: device temperature, supply voltage, LTE signal quality, GNSS position, speed

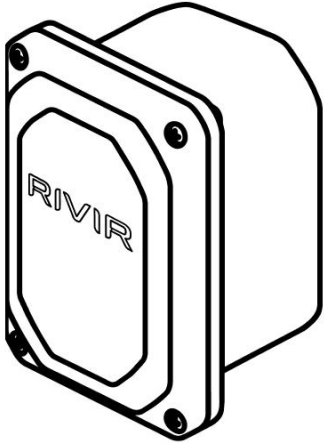
SUPPORTED LTE BANDS	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B40, B41, B66
REGULATORY	FCC/IC/RED/GCF/PTCRB (in progress)
GPS	Latitude, Longitude, Altitude (where available), Time
ELECTRICAL SPECIFICATIONS	8-30 Vdc (operating)
DATA INTERFACE	Modbus RTU over RS485 designed to meet; ISO 8482:1987 (E) ANSI/TIA/EIA-485-A-98 <small>Functional isolation between interfaces and power input.</small> 2 × 4-20mA Inputs 2 × Small-signal configurable solid-state relay outputs
OPERATING TEMPERATURE	-40°C to +80°C
FORM FACTOR	Outdoor housing designed to meet an IP65/68 rating
INSTALLATION OPTIONS	Wall mount, DIN rail, pole mount



Specifications

RIVIR GATEWAY

- Modbus RTU RS485
- Edge compute and edge logic
- 2 × 4-20mA Inputs
- Power supply: 8-30 Vdc (operating)
- GNSS: GPS L1
- Security: DTLS (PSK), LwM2M / OSCORE
- NEMA Type 1, 3, 3S, 3SX, 3X, 4, 4X, 5, 6, 6P, 12, 13 (in addition to IP65/68)



RIVIR PLATFORM

- Cloud-based data server
- Device management and control
- Information reporting and data collection
- Observation and notification
- Security management
- Software configuration management
- Alerting
- Data provisioning and staging
- User management

