# PLAN-S
SATELLITE & SPACE TECHNOLOGIES

CONNECTA IoT
SMART METER MODEM

Engineered for Seamless Integration with Utility Meters

End-to-End Secure Direct to Satellite Connectivity Services

◆ Connecta IoT Network

Inter-Satellite Link

Direct-to-Satellite Link

Feeder Link

Mobile & Computer Interface

Cloud Services

Plan-S Core Network

Private Data Center

Metering Device

Connecta IoT Smart Meter Modem

LoRaWAN Gateway

Ground Station Network

MQTT, HTTP, CoAP
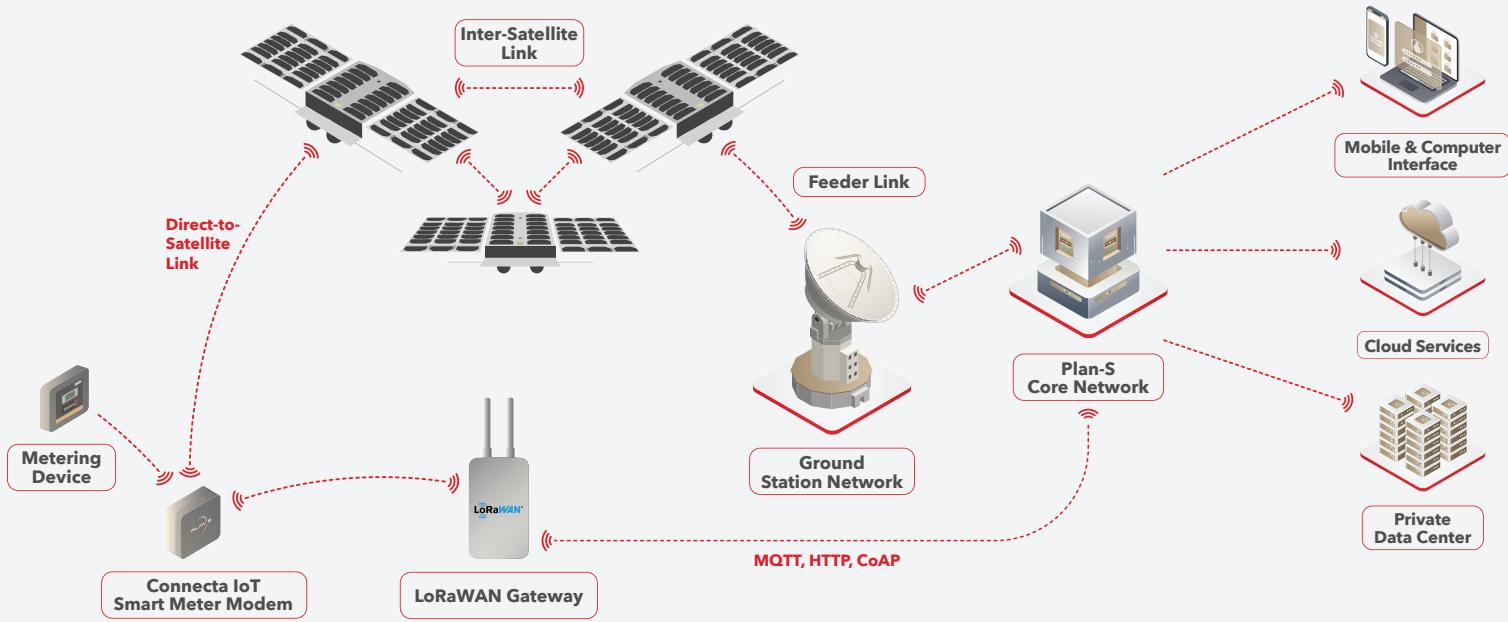
Introducing the
Connecta IoT Smart Meter Modem

The Smart Meter Modem is an advanced solution designed for seamless integration with gas, water, and electricity meters. It ensures reliable data logging and transmission, even in remote locations with limited connectivity. With its versatile design and robust functionality, it's the ideal choice for modern utility management applications.

Quick
Deployment

Seamlessly integrate the Smart Meter Modem with gas, water, or electricity meters over a serial interface. The modem supports pulse reading for mechanical meters and complies with the IEC 62056 standard for advanced electricity meters, ensuring compatibility and efficiency. Designed for reliable operation in remote and hard-to-reach areas, it facilitates energy-efficient and uninterrupted connectivity for modern utility management.

Key Features

- LoRa/LR-FHSS transceiver with embedded LoRaWAN protocol stack
  - Available frequency options: EU868 or US915
  - Up to 51-byte payload size
- Compatible with all electricity meters that implements IEC-62056-21
  - Various index data, read when needed
  - Automatic baud rate adoption

- Pulse reading on water, gas meters
- Serial interface for seamless sensor integration
- Compact dimensions: 100x100x54 mm
- Includes mounting accessories for flexible deployment:
  - Pole-mounted • Wall-mounted • Magnetic base

Benefits

Leading to up to **25%** reduction in meter reading costs in remote and rural areas.

Reduces contributing to the carbon footprint by up to **15%** for all related acitivies.

Simplifies metering device integration with an intuitive RS485, and optical port interface.

Supports vast networks with minimal infrastructure requirements, making it ideal for rural and underserved areas.

Main Applications

Meter Logging

Utility Control

Usage Monitoring

Fault Detection

CE FC **RoHS**
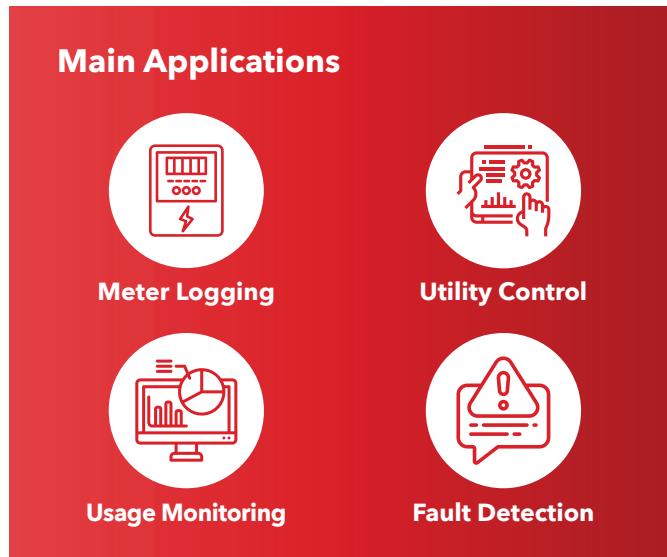
	SMART METER MODEM DEVICE FAMILY		
	SMM LITE	**SMM LITE SOLAR**	**SMM PRO**
POWER SUPPLY	BATTERY	RECHARGABLE BATTERY	EXTERNAL
VOLTAGE RANGE	3.3 VDC	3.3 VDC	9-36 VDC or 220 VAC
GNSS CAPABILITY	NO	OPTIONAL	OPTIONAL
WIRELESS INTERFACE	NO	NO	LoRaWAN®
BATTERY BACKUP	-	-	YES
PULSE READING	OPTIONAL	YES	YES