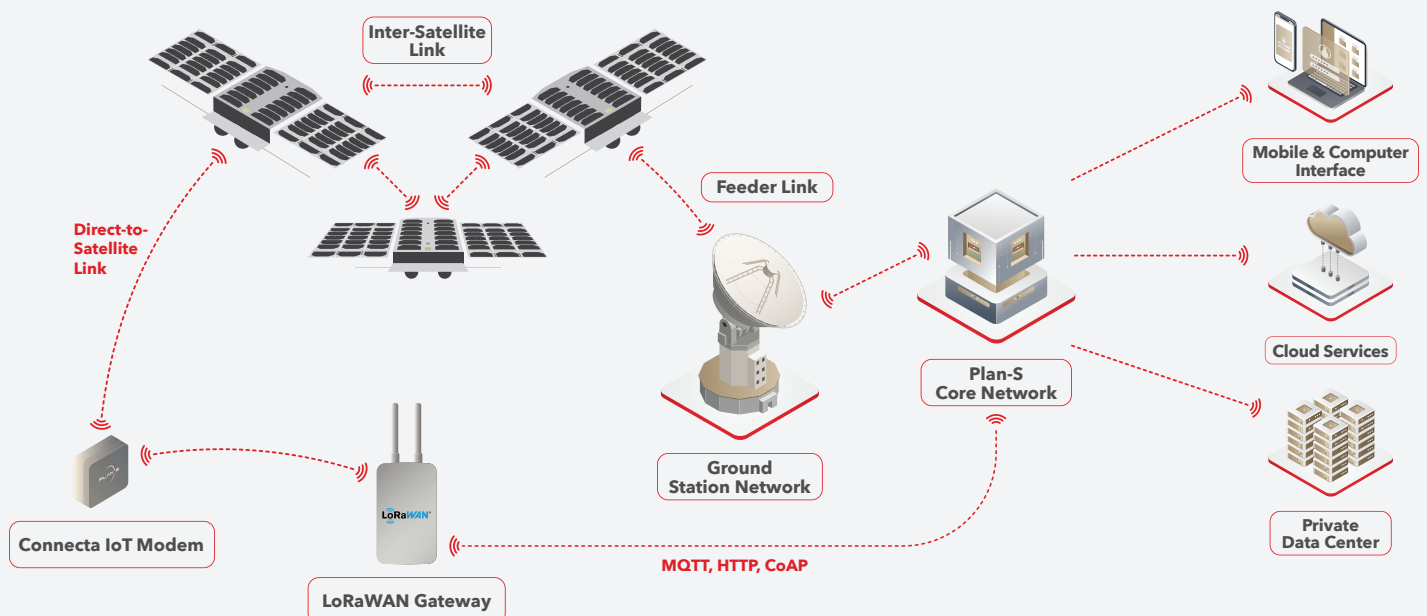# PLAN-S
SATELLITE & SPACE TECHNOLOGIES

CONNECTA
IoT
MODEM

Designed for Seamless Integration of Various IoT Devices to Connecta IoT Network

End-to-End Secure Direct to Satellite Connectivity Services

Connecta IoT Network

- Inter-Satellite Link
- Feeder Link
- Direct-to-Satellite Link
- Mobile & Computer Interface
- Plan-S Core Network
- Cloud Services
- Connecta IoT Modem
- Ground Station Network
- Private Data Center
- LoRaWAN Gateway
- MQTT, HTTP, CoAP

Introducing the Connecta IoT Modem

Connecta IoT Modem is a cutting-edge solution designed to connect IoT devices to the Connecta IoT Network via satellites. It provides robust connectivity even in remote areas where terrestrial networks are unavailable. Its versatile interfaces and compact design make it the perfect choice for diverse IoT applications.

Quick Deployment

Easily integrate your IoT device with the Connecta IoT Modem using simple AT commands over a serial interface. The satellite modem ensures uninterrupted connectivity in rural and hard-to-reach locations, supporting energy-efficient operation.

Key Features

- LoRa/LR-FHSS transceiver with embedded LoRaWAN protocol stack.
  - Available frequency options: EU868 or US915.
  - Up to 51-byte payload size.
- Built-in RHCP antenna for UHF ISM bands.
- Rugged, IP67-rated enclosure for harsh environments.
- Serial interface for seamless sensor integration.
- Compact dimensions: 100x100x54 mm.
- Includes mounting accessories for flexible deployment:
  - Pole-mounted   • Wall-mounted   • Magnetic base

Benefits

- Seamlessly connects legacy devices to the Connecta IoT Network.
- Simplifies sensor integration with an intuitive AT command interface.
- Offers a single, unified solution for both satellite and terrestrial connectivity.
- Provides a turnkey solution for satellite-based IoT services.

Main Applications

Smart Agriculture

Water Management

Environmental Monitoring

Pipeline Monitoring

CE FC RoHS

	MODEM DEVICE FAMILY			
	MODEM LITE	**MODEM BASIC**	**MODEM PRO**	**MODEM LITE SOLAR**
POWER SUPPLY	BATTERY	EXTERNAL	EXTERNAL	SOLAR
VOLTAGE RANGE	3.3 VDC	9-36 VDC	9-36 VDC or 220 VAC	3.3 VDC
GNSS CAPABILITY	NO	OPTIONAL	OPTIONAL	OPTIONAL
DIGITAL INTERFACE	RS485 or CAN	RS485 or CAN, ETH	RS485 or CAN, ETH	RS485 or CAN
WIRELESS INTERFACE	NO	NO	LoRaWAN®	BLE®
BATTERY BACKUP	-	YES	YES	-
EXAMPLE USE-CASES	Smart Metering Soil Health Monitoring Cathodic Protection	Gas Leakage Detection Air Quality Monitoring Asset Tracking	Utility Monitoring Aquaculture Weather Station Monitoring	Asset Tracking Buoy Monitoring Wild Life Tracking