

COMPAL



Demeter

NTN Satellite IOT Solution

Non Terrestrial Network

FROM VISION TO REALITY



IOT Use Case with Satellite



Logistics tracking
On land

Equipment Monitoring
And Maintenance

Alarms
and Safety Notifications

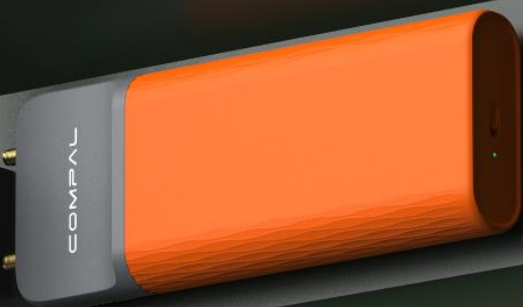
Maritime Resource
Exploration



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NTN Satellite IOT Solution

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Logistics tracking



Water monitoring

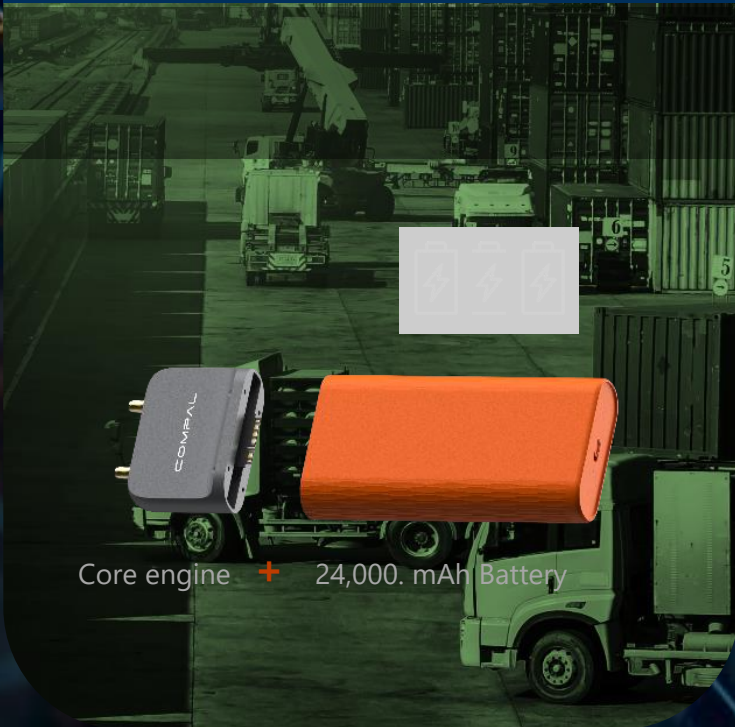


Equipment Monitoring

1

- Signal Transmission
- No Power Supply

Object Tracking



Core engine + 24,000. mAh Battery

2

- Signal Transmission
- No Power Supply
- One Connector

Environmental Data Detection

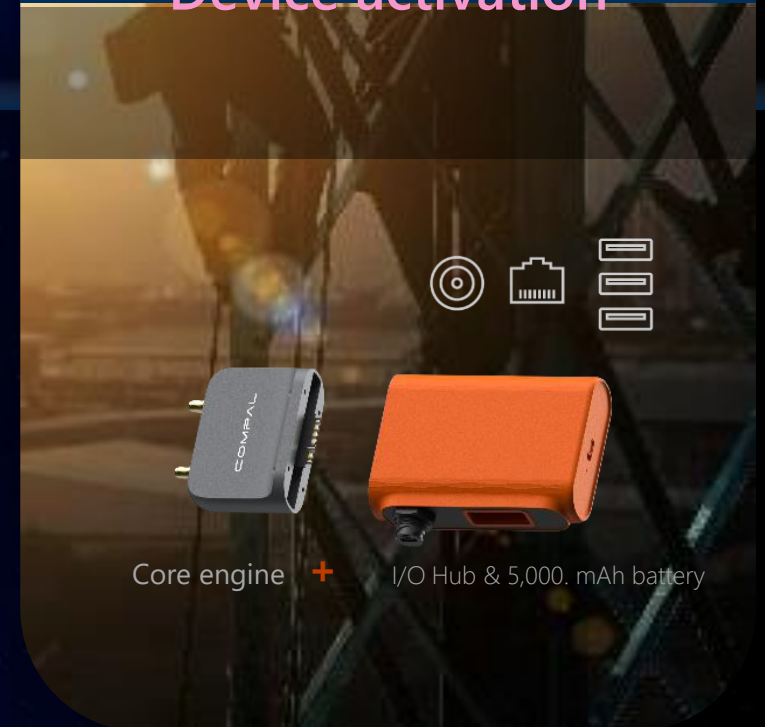


Core engine + Low Solar panel & 6,000 mAh battery & one port

3

- Signal Transmission
- Power Supply
- Various Connectors

Data management & Device activation



Core engine + I/O Hub & 5,000. mAh battery

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Power Monitoring Solution NTN Connectivity

Satellite-to-ground
communication
Inmasat



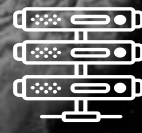
IoT
Support
Cloud



IOT
Platform



Core Network
SKYLO



Demeter R17 NTN IoT Hub

ID



Schedule

Target SA Date 2H2023

Selling Information

Target Segment Satellite IoT for transport, energy, industry

Selling Region US, EMEA, APAC

Main Specification

Network	Satellite Network: B23, B24, B255, B256 L Band B24/B255 : UL 1626.5 - 1660.5MHz ; DL 1525 - 1559MHz S Band B23/B256 : UL 1980 - 2010 MHz ; DL 2170 - 2200 MHz GPS: L1
Platform	MediaTek MT6825 + + BLE (STM32WB55RE) + ESIM (Samsung S3FW9FG) + GPS (AIROHA AG3352) + Power (control DC in and Battery)
OS	RTOS
Dimensions	208 × 82 × 32 mm (by Docking Options/TBD)
Connectivity	Skylo (Inmarsat GEO), two-way communication, BT5.1
Core	B2B connter; Antenna X 1 for GPS, Antenna X 1 for L+S band
IOT HUB	B2B/, DC Poewr, RS485, RS232
Module Regulatory	FCC, CE, IC, JATE, TELEC, NCC, Skylo
Other	NB-IoT Rel-17 for NTN
Other	FOTA BT, IOT Cloud management Service ; Li - Battery (Optional)

Version : 20230801_V0.9