



OrionM2M

Data acquisition and transmission device

ORION ID

FEATURES:

-  LoRaWAN Class A and C
-  Support local firmware upgrade
-  Web UI for LoRa and network configuration
-  Up to 15 km communicating range
-  Support Packet Forwarder/Packet Forwarder with Embedded LNS/Basic Station Mode
-  Support Spectral Scan & Listen Before Talk (LBT)
-  Up to 8 concurrent channels for LoRa transmission
-  Remote control and power supply monitoring



APPLICATIONS:

Smart City and Industrial IoT | Smart building and Industrial Control | Smart Agriculture | Other wireless sensing applications

General

Design type	Indoor
Connections	GSM / Ethernet
Power Supply, V	100-240VAC; 50/60Hz
Protection class against electric shock	I
Operating temperature, °C	0 ... +40
Storage temperature, °C	-10 ... +60
Working Humidity	Operating: 10 - 85% Storage: 5 - 90%
IP rating	IP65
Weight, kg	3.3
Warranty, years	3
Device content	1x Automatic protection unit 1x LoRaWAN gateway 1x LA-IP[40] with 2x Relay 1x Opening control switch

Radio

Communication protocol	LoRaWAN
Device class	A, C
Bands	EU862-870 MHz
Modulation	LoRa
Packet Forwarder	Semtech Basic Station or UDP forwarder
LoRa antenna type	Internal / External
LoRa power output	up to 27 dBm (max)
Receiver sensitivity, dBm	up to -142
GSM/LTE Bands	LTE FDD: B1/B3/B5/B7/B20/B28A LTE TDD: B38/B40/B41 WCDMA: B1 GSM: B3

Order Info

SKU	Description
ORION ID-[D]-[T]-[M]-[L]-[G]-[F]	Data acquisition and transmission device ORION ID-350 / 400 - Compliance with LoRaWAN 1.0.3 - GSM/LTE - Various LoRa and GSM antenna configurations - Power input: 100-240VAC 50/60Hz - EU862-870 MHz
D: Dimension of cabinet 400: 400 x 300 x 170 mm 350: 350 x 250 x 150 mm T: Type of gateway - B: ORIONGATEWAY PICO 08-868M-EU-M-W-G - T: Tektelic KONA MICRO IOT GATEWAY	M: Type of meter -: no meter - S: SPBZIP 492726A-A1-S-RF-230B-5-60A-[R01].Z.R.M-O - N: Saiman OPMAH CO-3711 R TX IP II RS LoRaWAN BB L: LoRa antenna - L0: no LoRa antenna - L1: GP 868 C (External) - L2: WL-868E115 - L3: WL-GSME115 - L4: WL-GSME14324-1500 G: GSM antenna - G0: no GSM antenna - G1: WL-4GE11522-1500 F: Feeder (Reducing cable) - F0: no feeder - F1: Feeder N type male/SMA male L 1m - F2: Feeder N type male/SMA male L 2m - F3: Feeder N type male/SMA male L 3m