



OrionM2M

Street lighting controller

ORIONLIGHTING NEMA

FEATURES:

-  LoRaWAN v1.0.3 Class C
-  Internal scheduling memory
-  Ultra-low power consumption
-  Integrated light level sensor
-  Rapid installation and deployment
-  High reliability and stability
-  EasyTool technology allows configure the device remotely
-  Wide range of electrical parameters monitoring
-  Advanced data synchronization and notification mechanism
-  Ultra-wide-distance transmission is up to 15 km



APPLICATIONS:

Smart City – Street lighting, monitoring and control | Smart building and Industrial Control | Other wireless sensing applications

General

Enclosure material	PC
Microcontroller	Ultra-low-power MCU STM32L0
Lamp type	LED, CF, HID with electronic driver
Connector	7 pin NEMA Socket (ANSI C136.41)
Maximum lamp power, W	400
Light control	ON / OFF / Dimming
Operating temperature range, °C	-40 ... +65
Light sensor	Yes
Interface	0-10V/DALI
Time synchronization	GPS / GLONAS / LoRaWAN
Power supply	AC 100–277 V / 50–60 Hz
Overvoltage protection	Yes
IP rating	IP66
Dimensions, mm	Ø76 x 96
Weight, g	≤210
Warranty operating period, months	12

Radio

Support Protocol	LoRaWAN v1.0.3
Device class	C
Bands	EU863-870 IN865-867 RU864-870 KZ865-868 US902-928 AU915-928 AS923 KR920-923
Activation in LoRaWAN	OTAA
LoRa Power Output	up to 14 dBm (25 mW)
Receiver sensitivity, dBm	up to -137
Signal lead	Internal antenna
Data transfer rate, kbps	0.3 ... 40
ADR support	Yes
Firmware update	EasyTool / OTA
Communication type	Unicast / Multicast
Communication range, km	up to 15

Controller

Management	Monitoring parameters	Alarms
· Astronomical calendar scheduler · Predefined scheduler · Start state (Photocell / Schedule / Manual) · ON/OFF power threshold · High/Low voltage threshold · High/Low current threshold · Strike retry count · Fade time · Lamp warm-up time · Lamp recharge time · Luminosity threshold	AC line · voltage and current · phase and cosine φ Lamp · active power · reactive power · full power · energy consumption Metering · hours of operation · on / off cycles	· High/Low voltage · High/Low current · Lamp or power fault · Device failure

Order Info

SKU	Description
NEMA-[CA]/F	Street lighting controller NEMA ANSI C136.41; IP66 C: Type · LW: LoRaWAN A: antenna · 868: internal 868 · 915: internal 915 F: the default frequency plan · EU: EU863-870 · IN: IN865-867 · RU: RU864-870 · KZ: KZ865-868 · US: US902-928 · AU: AU915-928 · AS: AS923 · KR: KR920-923