CityZenZ Connect V3

Datasheet

Description

CityZenZ Connect is the module for online management and monitoring of public lighting within the modular CityZenZ platform. The module enables **remote control**, such as switching lights on and off, dimming, and setting extensive switching schedules based on time, solar events or external triggers.

Through the CityZenZ environment, Connect provides continuous insight into the status of installations, including alerts for faults, door contacts and deviations in energy consumption. Energy data can be read from smart meters (P1) or Modbus connections, providing insight into kWh, power and power factor.

CityZenZ Connect communicates wirelessly via **LTE-M** and is equipped with **GNSS** for accurate positioning and time synchronisation. Thanks to local intelligence, the configured switching schedule remains active, even when no network connection is temporarily available.

With support for **Modbus integrations**, API connections and area-based control, CityZenZ Connect provides a scalable and future-proof basis for smart lighting management and further expansion within the CityZenZ platform.

Functionalities

Topic	Description
Internet connection	TLS 1.2 connection to the CityZenZ backend via LTE-M.
Positioning	GNSS (GPS, Galileo, BeiDou and QZSS).
Time synchronisation	Once per day via LTE or GNSS.
Outputs	2 outputs that can be switched independently.
Switching schedules	• Local absolute time • Sunrise or sunset • Civil twilight • Nautical twilight • Astronomical twilight • Light level (external via API connection)
Number of switching commands	≤ 126 (total)
Recurring switching schedules	• Daily, throughout the year • Daily within a date range • On a specific day of the week • Combinations of these (for example: first Monday of the month)
Adjusting schedules	• Via the web interface • Via an API connection • Also possible for the connected CityZenZ Switch
Manual override of outputs	• Manual override (up to 1 hour) • Via the web interface • Via an API connection
Modbus integrations	• CityZenZ Switch • ABB B23 energy meter • ABB EV3 energy meter

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Communication

Topic	Description
Wireless connection	LTE Cat-M1
SIM card	eSIM
Positioning	GNSS (Galileo & GPS)
LTE & GNSS antenna	External (included)
Bus connection	Modbus RS-485

Power

Topic	Description
Input voltage	165 – 264 VAC
Input frequency	50/60 Hz
Power consumption	≤ 5 W
Overvoltage category	OVC II

P1 input

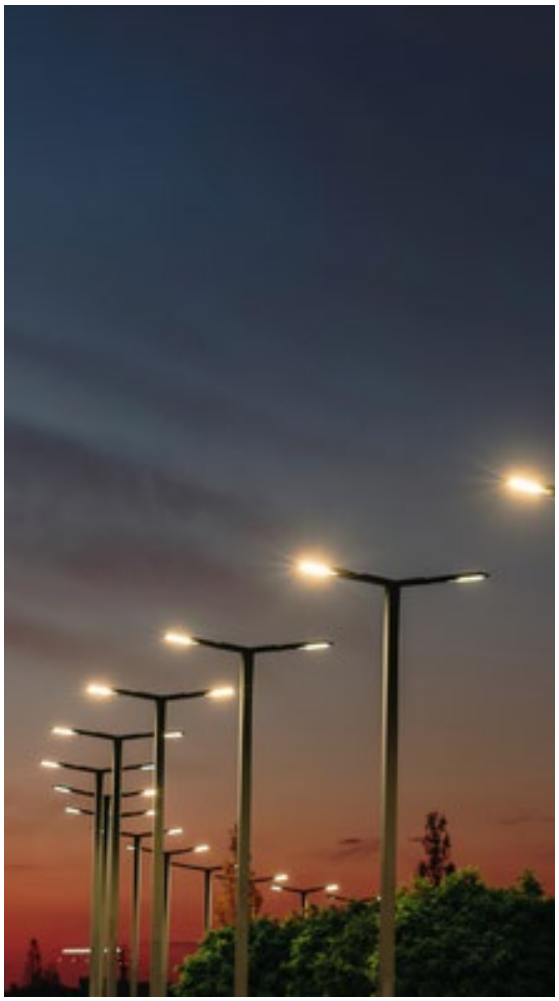
Topic	Description
Standard	• DSMR 5.0.2. • E-MUCS H
Cable length	≤ 2 metres

HV input

Topic	Description
Type	AC detection
Quantity	1
Voltage range	165 – 264 VAC
Input current	< 2 mA
Switching speed	< 1 Hz

HV output

Topic	Description
Type	Mechanical relay
Quantity	2
Voltage range	≤ 250 VAC
Current	≤ 4A
Inrush current	≤ 4A
Switching cycles	< 25.000



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Environment

Topic	Description
Storage temperature	-20°C to 60°C
Operating temperature	-20°C to 60°C
Operating humidity	5% to 85% (non-condensing)
Operating altitude	< 2000 m above sea level
IP protection rating	IP20

Regulations & compliance

Topic	Description
Marking	CE
Safety	EN 62368-1:2023
Radio (RED directive)	• EN 301 908-13 V13.2.1 • EN 303 413 V1.1.1 • EN 301 489-1 V2.2.3 • EN 301 489-52 V1.2.1
EMC	• EN 61000-6-2:2019 • EN 61000-6-4:2019
RoHS	2011/65/EU
WEEE	2012/19/EU

Ordering information

Product	Product number
CityZenZ Connect V3	A1209D000

All specifications are subject to changes

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