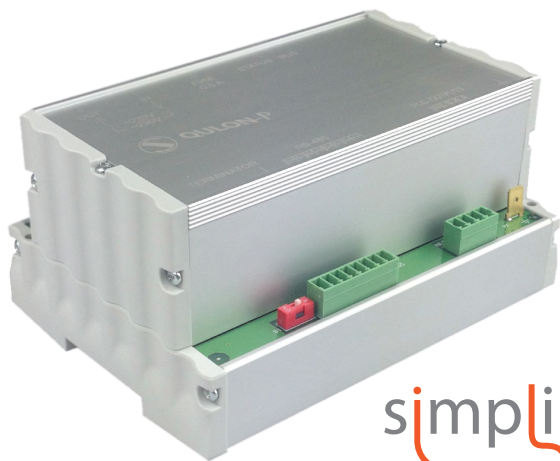# Qulon Simpline

Individual control module for Powerline solutions

Qulon Simpline is additional module that provides individual remote light control of luminaires with installed PLC modules through power lines (PLC) using Sundrax's proprietary Simpline technology to communicate luminaire node controller with central gateway. Additional control wires are not required. Mounted inside existing lighting cabinet together with Qulon-C (Central Gateway). Connected to the central controller Qulon-C via RS-485 interface (ModBus). Acts as a master to send/receive data to/from PLC modules (slaves). It communicates with the slaves using PLC interface via existing power lines.

Key Features

• Provides individual control and power regulation of discharge lamps with an electronic ballast and a built-in Simpline node

• Provides individual control and power regulation of LED lamps with a built-in Simpline node

• Connected to Qulon-C over RS-485 (MODBUS RTU)

• Full galvanic isolation of RS-485 interface

• Built-in power supply ~100-270 VAC
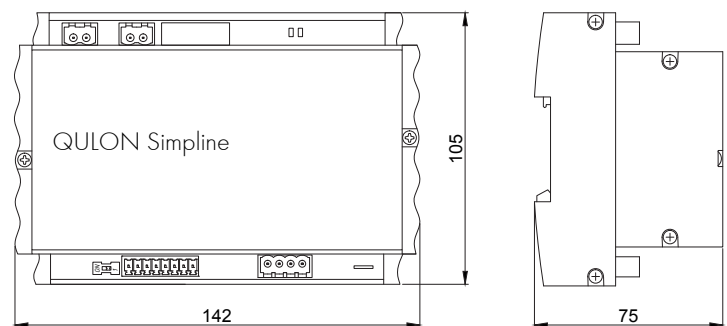
QULON CMS

QULON is a powerful yet extremely flexible Central Management System for street lighting. A combination of software applications and different hardware technologies that will offer you full control over any kind of lighting network enabling activity scheduling, real time faults notification, remote meter reading, performance analysis, custom dimming scenarios creation, maintenance workflow management and much more, increasing efficiency and cutting down costs.

Qulon Simpline

Individual control module for Powerline solutions

Technical Specifications

Mechanical

- Housing: DIN mounted case (8 modules)
- Material: Metal, Plastic
- Dimensions, mm: 142(D) x 105(H) x 75(W)
- Mass: 0.45 kg
- Mounting: DIN-rail in the power cabinet

Power & Electrical

- Input Voltage: ~100-270 VAC, 50/60 Hz
- Number of phases: 1-3
- Input Power (max): 5 W
- Mains Fuse: 0.5 A

Environmental

- Operating Temperature: -40...+70°C
- Storage Temperature: -50...+80°C
- Operating Relative Humidity (max): 95%
- IP Rating: IP 20
- Certification: CE, RoHS
- Warranty: 36 Month (Return to base)

Inputs / Outputs

- Connectors: Terminal blocks 2EDGVC, 15EDGVC

Interfaces and Protocols

- Serial interface: RS-485, PLC
- Max length of RS-485 line: 1500 m
- Communication with node: CENELEC EN 50065-1 (band C)

Configuration / Indication

- Setup: Remote via Qulon-C
- Indication: LEDs for Power and RS-485 activity

Package Contents

- Qulon Simpline module
- User guide
- Connectors kit

Product Line

Name	Modification	Product code
Qulon Simpline		QUL-P-EXT-PWR

Qulon Simpline
Individual control module for Powerline solutions

Connection Scheme

Operator   Internet   GSM, GPRS, EDGE

QULON-C

RS-485

RS-485 (MODBUS)

N   L   N   L

OUTPUT   INPUT

QULON Simpline

RS-485   PLC OUTPUTS

C PLC
N

B PLC
N

A PLC
N

ANTI-JAMMING FILTERS

3-PHASE MAINS
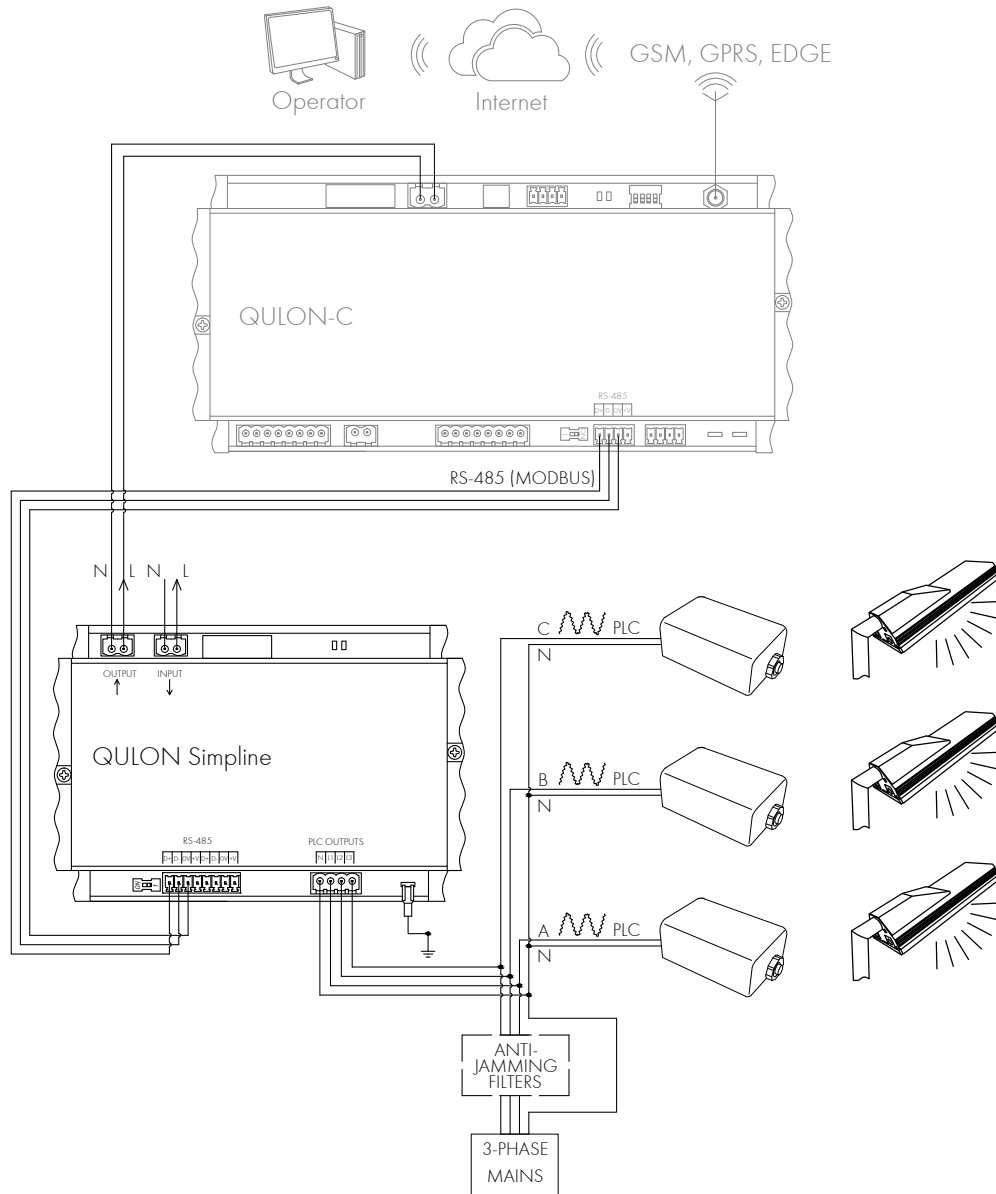
Accessories

Name	Product code
Anti-jamming filter for single-phase Powerline, max load 20A	QUL-C-AC-FLT20
Anti-jamming filter for 3-phase Powerline, max load 20A per phase	QUL-C-AC-3FLT20
Anti-jamming filter for single-phase Powerline, max load 40A	QUL-C-AC-FLT40
Anti-jamming filter for 3-phase Powerline, max load 40A per phase	QUL-C-AC-3FLT40
DIN rail mounting kit	QUL-C-AC-DIN