

iMASTER 400

iMASTER 400 is the central communication and controlling hub in iLUMNET intelligent LED lighting system. It uses wireless communication to control and manage all smart nodes allocated to the local area. iMASTER communicates with iLUMNET server that manages intelligent lighting system configurations and modifications. iMASTER also enables remote server based features like reporting, fault notification and SW upgrades.

iMASTER contains an industrial Linux-computer with lighting control software. The unit has also a real-time clock with guaranteed battery life beyond expected lifespan.

iMASTER provides secured and reliable remote connection to iLUMNET server by utilizing advanced encryption and authentication techniques.

KEY FEATURES

- Radio communication with smart luminaires and sensors
 - Control based on the clock, calendar or sensory data (sensors are optional)
 - Parameter and SW updates
- 3G, WLAN and Ethernet connection to iLUMNET server
 - Local area lighting system configuration and related parameters
 - Updates to internal software
 - Sending operational data for monitoring and reports
- Secure internet connection is provided using advanced encryption and authentication solution
- Industrial Linux-computer
 - Calendar, clock
 - Guaranteed battery life beyond expected lifespan



Subject to change without prior notice.

Technical Specification

General Specification	
Operating Voltage	230 V _{AC} ± 10 % / 50 Hz
Operating Temperature	-40°C ~ +50°C
Chassis	Plastic, IP65
Dimensions (WxLxH)	350 x 250 x 143 mm
Mounting	Screw fastening, pole mounting band
SRD Radio	SRD 863 – 870 MHz, std. ETSI EN300 220-1. Mesh support.
WLAN Radio	2.412-2.472 GHz, std. IEEE 802.11 n/g/b
3G Radio	UMTS/HSPA 900/1900/2100, 7.2MBps (down) / 5.76Mbps (up)
Ethernet Connection	Cable 10/100 Base-TX fast Ethernet RJ-45 connector
Encryption and Authentication	PKI, 1024/2048 bit RSA
Data Encryption	TLS, Blowfish-128-CBC/AES-256-CBC

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