It is easily installed inside the luminaire (LCU Internal); or externally (LCU External), utilizing either a standard (twist and lock) NEMA socket, or conduit configuration.

T-Light LCU PRO is a principal component of the **T-Light** street light control network. The LCU controls its LED driver or electronic ballast to provide On/Off and dimming functionality. The LCU provides various comprehensive energy measurements, luminaire parameters and maintenances statuses.

The LCUs receive commands individually or as a group from the Data Control Unit (DCU) gateway; commands can be changed as and when needed. The T-Light network is easily controlled either automatically through the web-accessed **T-Light CMS** system (or a 3rd party management software).





Reports

- Reports of events related to exceeding established parameter limits
- Aggregate energy and active power consumption
- Burning hours
- Number of On/Off cycles

- Failure reports
- Various luminaire dynamic parameters such as: instantaneous levels of ambient light, power consumption, voltage, current, power factor, temperature.

Functional Specifications

- On/Off and dimming functionality using automatic DALI/ 0-10 volt selection
- Luminaire power consumption measurement to 1% accuracy
- Analog and digital input for interfacing with external sensors
- Auto-commissioning with GPS or NFC chip
- Internal or external configurations
- Highly secure wireless communication utilizing AES-128 or AES-256
- Two types of external configuration enclosures - NEMA: ANSI C136.41, 7pin; or conduit configuration
- Dual backup protection autonomous operation based on a pre-programmed scenario; built in light sensor (in external configuration), no dayburn
- Supports over the air firmware upgrade
- Data and settings preserved in case of power failure
- LCU stores history of measured parameters for at least a week to allow for data extraction
- Dual functionality in the Galaxy system
 controls the luminaire and operates
 as a repeater
- MTBF > 1,000,000 hours
- Controlled Auxiliary Output (optional)



TW_LCUP_06

T-Light[™] LCU PRO

Light Control Unit

Technical Characteristics

Remote continuous and gradual dimming from 0-100%		
DALI or 0-10V		
90 - 305V AC @50-60Hz		
10A		
350J (10kA)		
-40°C to +72°C		
IEC60950-1:2005		
3kVac/5mA/5Sec		

Rf Characteristics T-Light™ PRO

"Under the cover" antenna option

Frequency:	869.5 MHz – EU ISM band
	902-928 MHz - US ISM band
	920-925 MHz - SG, TW ISM band
Data rate:	110 kbps
Output Transmit Power:	Up to +27dBm, 500 mW max

Compliance with FCC CFR47 PART 15	
Compliance with ETSI EN 300 220-1	
Range between the LCUs:	Up to 2km (depending on environmental conditions)

Mechanical Characteristics

LCU Internal configuration:	165 x 55 x 32mm
LCU External configuration:	Ø 89 x 108mm
Protection: LCU internal	IP66
LCU external	IP66

Installation

The LCU Internal is easily installed inside the light fixture or light column, next to the light unit ballast or LED driver.
The LCU External is easily installed on top of the lighting fixture utilizing a NEMA socket or conduit configuration.

T-Light PRO System Architecture



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