



T-Light DCU Galaxy

T-Light DCU Galaxy is a principal component of the T-Light Galaxy long-range street light control network. DCU Galaxy is installed on a strategically chosen site with a high antenna, and can control up to 50,000 light poles within a 20 kilometer radius.

The **Data Communication Unit (DCU)** uses robust and encrypted two-way communications to manage information traffic and commands for both individual lighting units and for groups of lights. Storing all status and energy consumption information of the remote Luminaire Control Units (T-Light LCU), the DCU communicates with the Central Management System (CMS) and transmits all control commands to the luminaires. The DCU provides the monitoring status of each luminaire, including aggregate energy and active power consumption. It provides detailed parameters and values, such as voltage, current, power and temperature.

DCU-GALAXY KEY FEATURES

- Licensed Frequency band
- Long communication range enabling wide area coverage
- Control, Monitor, and Manage up to 50,000 Luminaires with a single Gateway
- Supports over the air firmware upgrade
- Manages the light pole network remotely using advanced management software
- Configurable alerts provided by SMS or EMAIL
- Back-up option
- Control all fixtures within a 6-15 mile radius
- Can read, monitor, and control Galaxy enabled utility meters
- Stores network and individual luminaire data and history
- Easy remote management and upgrading
- On-Board NMS
- Highest level of security and encryption

T-Light DCU Galaxy

RF SPECIFICATION

Frequency:	450-470 MHz - Licensed band
Bandwidth:	6.25 kHz
Receiver Sensitivity:	-120 dBm @ 4.8 kbps
Output Transmit Power:	Up to +43 dBm / 20 Watt max
FCC Part 90.210 Certification (Spectrum mask E)	

EXTERNAL INTERFACE

Ethernet, RS232/RS485
USB PORTS
I/Os

ELECTRICAL SPECIFICATIONS

AC Input Voltage:	110/230 VAC @ 50-60 Hz
Operating Temperature:	-40°C to +70°C

T-LIGHT SYSTEM ARCHITECTURE



* T-Light™ is a trademark of Telematics Wireless. Other company and product names mentioned in this document may be trademarks or registered trademarks of their respective owners. Telematics Wireless reserves the right to make changes to the materials and products mentioned in this document without prior notice.

* Specifications subject to change without prior notice.



MECHANICAL SPECIFICATION

DCU enclosure:	Rack-mount 19-inch
Per Customer Request	
Installations:	DCU in IP65 enclosure
Physical Dimensions:	260 x 180 x 65 mm

External Cellular Modem

GSM / GPRS / WCDMA
External antenna
SIM card



www.telematics-wireless.com
sales@tlmw.com

Telematics Wireless Ltd.
 26 Hamelacha St.
 POB 1911 Holon 5811801, Israel
 Tel: +972-3-557 5700
 Fax: +972-3-557 5703

Telematics Wireless USA Corp.
 7750 N. MacArthur Blvd.
 Ste 120-274, Irving, TX 75063
 Tel: (718) 640 2750
 Fax: (718) 640 2751

SALES:
sales.tlight@tlmw.com
 Tel: (650) 276-8478