# $L | G H T G R | D^{+}$



### CUSTOMER NAME

**PROJECT NAME** 

DATE

CATALOG NUMBER

TYPE

### LightGRID+ SERIES

LightGRID+ Wireless Gateway3

- Autonomously manages up to 500 fixture modules
- Astronomical and fixed time scheduling
- Uses Flash memory storage in order to withstand temperature, shock and vibrations
- Supports network connectivity via Ethernet connection (Standard) or optional cellular modem
- Enhanced surge protection 6kV / 3kA per ANSI C62.41-2002
- NEMA 4X (IP66) cabinet
- Secure communication using AES-128 encryption
- · Optional cabinet heater for extreme cold environments

### SPECIFICATIONS

### CONSTRUCTION

- Compression molded fiberglass reinforced polyester construction with flush, solid/ opaque cover
- Standard: 10"L x 8"W x 4"H (Hammond PJU1084L)
- NEMA 4X (IP66 rated)
- Stainless steel hinges and lockable snap latches
- Supplied with pole and wall mounting brackets
- Weight: 6 lbs
- ELECTRICAL
- + 120-240 VAC; 50/60Hz  $^{\rm 2}$
- Power consumption: 10W maximum (Heater option 70W when in operation)
- Fuse: 5A
- Surge Protection: Protects against surges and transients per ANSI 62.41-2002 category C low (6kV, 1.2/50µS & 3kA, 8/20µS) standard Combo waves and (6kV, 100kHz) Ring wave

### RADIO COMMUNICATIONS

• Radio Frequency Options: 2.4GHz ISM Band

### RADIO COMMUNICATIONS (CONTINUED)

- Recommended Range: Up to 300m / 1,000 ft betwen modules.<sup>1</sup> Communication range based on clear line of site. Range may vary widely depending on environmental factors.
- Transmit Power:
  - 2.4GHz: 63 mW (+18 dBm)
- Receiver Sensitivity:
  2.4GHz: -101 dBm

### NETWORK AND SECURITY

- Ethernet: Static IP or DHCP protocol supported
- Cellular: Static/Dynamic Public IP or Static
   Private IP supported
- Secure Encrypted Communications: Military Grade AES-128 (and AES-256) encryption and certificate-based authentication
- Gateway passwords, certificates and keys securely stored
- Server API access protected and encrypted with X.509 certificates with proof of possession

### OPERATION

- Autonomously manages a group of nodes
- GPS Accuracy: Horizontal position accuracy < 2.5 CEP

### **OPERATION (CONTINUED)**

Heater option available - Recommended

when temperature is below 0°C

- OPERATING ENVIRONMENT
- Relative Humidity: Up to 99% noncondensing (fully waterproof NEMA 4X enclosure)
- Ambient Temperature Range:
- Without Heater: 0°C to +70°C
- With Optional Heater: -40°C to +70°C

### CERTIFICATIONS

- UL508A
- 2.4GHz Version: U.S. FCC (Digi XBee PRO 2.4GHz) Part 15.247 Class A: MCQ-PS2CTH, Canada IC: 1846A-PS2CTH, Europe CE: ETSI, Australia: C-TICK, Japan: TELEC
- This product qualifies as "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020

### WARRANTY

5 year limited (Up to 10 year extended available)

#### Notes:

- 1 Antenna must be mounted vertically up or down.
- 2 277VAC and 347VAC operation requires stepdown transformer – see Accessories



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(FC) (IP66) (

# LIGHT **GRID**<sup>+</sup>

# LightGRID+ SERIES LightGRID+ Wireless Gateway3

### CUSTOMER NAME

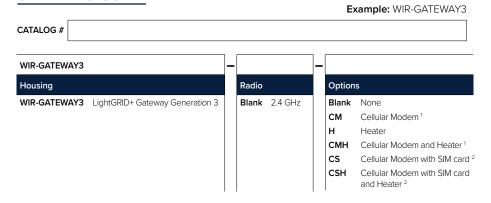
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### **ORDERING GUIDE**



### Gateway Cellular Network Plan WIR-GW3-CSNP-PBLC LightGRID+ Gateway Generation 3 Cellular Service Network

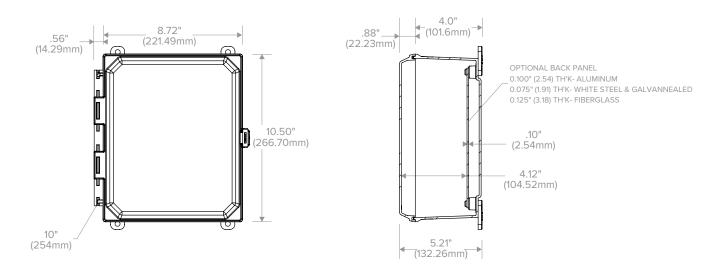
	Plan - Public
Accessories	
WIR-STPDNXFMR-277	LightGRID+ Gateway Stepdown Transformer - 277V TO 120V
WIR-STPDNXFMR-347	LightGRID+ Gateway Stepdown Transformer - 347V TO 120V

### Notes:

1 Cellular SIM card and service plan not included

2 Includes 1-year cellular service data plan (public)

### DIMENSIONS



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# LIGHT**GRID**<sup>+</sup>

# LightGRID+ SERIES LightGRID+ Wireless Gateway3

### WIRING DIAGRAM

### CUSTOMER NAME

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Antenna Normal Power To Network 2

Access Point Notes:

- In order to access into the Gateway, the Gateway must be connected to power at all times and connected into the client's network.
- Logging into the Gateway is done by using the LightGRID+ Software Suite via the clients network. 2
- 3 A Gateway is necessary when programming presets

LightGRID+ Gateway - WIR-GATEWAY3

Current