



PRODUCT OVERVIEW

Part of the Dimonoff wireless lighting control technology suite, the third-generation Gateway G3+ enables communications between the Smart Wireless Lighting Nodes and Dimonoff | SCMS and DOO Express software platform.

Each gateway autonomously manages a group of nodes, removing any dependency on a central server for normal operation and making the system redundant and robust.

AT A GLANCE

- Gateway / node ratio: maximum 1000 smart wireless lighting nodes per Gateway (500 recommended).
- Gateways reside in NEMA4X (IP66) cabinets and are therefore convenient for both indoor and outdoor applications.

BACKHAUL NETWORK

- Each Gateway can manage and communicate with Dimonoff's software platforms via Ethernet (LAN) or cellular
 - Ethernet: A static IP address reserved on your network or use of DHCP protocol by reserving an IP address on your network is required.
 - Cellular: A standard size SIM card with no options is required with at least 500MB / month (may vary by number of nodes) for data only. The Access Point Name (APN) and service provider are required. Dimonoff does not provide neither the SIM card or the data plan.
 - Static private or public IP with DOO Express
 - Static / dynamic public IP or static private IP with Dimonoff | SCMS
- Communication network security: Each gateway has its own passwords, certificates and keys securely stored by Dimonoff with restricted access
- Server API access is protected and encrypted with X.509 certificates with proof of possession

COMMUNICATION BETWEEN NODES AND GATEWAYS

- Can be used with different radio types: Digi XBee PRO 2.4 GHz, DIGI XBee PRO 900 MHz
- Security: Military grade 128-bit AES communication encryption on Digi XBee radios (AES 256-bit encryption option available)

SPECIFICATIONS

ELECTRICAL

- TVoltage: 120 to 240 Vac - 50 and 60 Hz
 - 277 and 347 Vac requires a stepdown transformer (not included) (STPDN XFMR-277 or 347)
- Gateway consumption: 10 W max
 - With Heater option: 70 W when in function
 - With UPS option: 340 W max with UPS charging
- Fuse: 5 A
- Surge protection: 190 Joules (10,000 surge current rating measured using industry standard 8/20 μ Sec wave)
- UPS option/LiFePO4: 12-hour battery life with fast recharge

RADIO COMMUNICATIONS

	Digi XBEE PRO 2.4 GHz	Digi XBEE PRO 900 MHz
Recommended range	<ul style="list-style-type: none">Up to 300 meters/1000 ft between modules.Communication range may vary widely depending on environmental factors.	
Transmit power	63 mW (+18 dBm)	Up to 250 mW (+24 dBm)
Receiver sensitivity	- 101 dBm	- 101 dBm

OPTIONS

- Heat option (when temperature is below 0 °C)
- Cellular modem option (when a local Internet network is not available)
- UPS option for specific application (LiFePO4 12-hour battery life with fast recharge/contact Dimonoff for dimensions details)

ENVIRONMENTAL

- Ambient temperature range: 0 °C to +70 °C (32 °F to 158°F)
 - With Heat option: -40 °C to +70 °C (-40 °F to 158°F)
- Relative humidity: up to 99 % non-condensing

LISTINGS

- UL-508A
- U.S. FCC (Digi XBee PRO 2.4 GHz) Part 15.247 Class A: MCQ-PS2CTH, Canada IC: 1846A-PS2CTH, Europe CE: ETSI, Australia: C-TICK, Japan: TELEC
- U.S. FCC (Digi XBee PRO 900 MHz) Part 15.247 Class A: MCQ-XB900HP

WARRANTY

- Limited 5-year warranty (Up to 10-year extended available)

DIMENSIONS (DIAMETER X HEIGHT) (PO/MM)

- 10 x 8 x 6 po / 254 x 203,2 x 152,4 mm
- NEMA4 Cabinet (model: Hammond PJ1084L) delivered with installation supports (including post and wall mount)
Dimensions vary with UPS option
- Stainless steel hinges and lockable snap latches

WIRING DIAGRAM

Please refer to the Gateway wiring diagram.

ORDERING INFORMATION

CAB-GTW-G3	Radio type	Options	Network (LAN by default)
	2.4G : Digi XBee PRO 2.4 GHz	H : Heat	CM : Cellular Modem
	9HP : Digi XBee PRO 900 MHz	UPS : back-up battery (special order)	