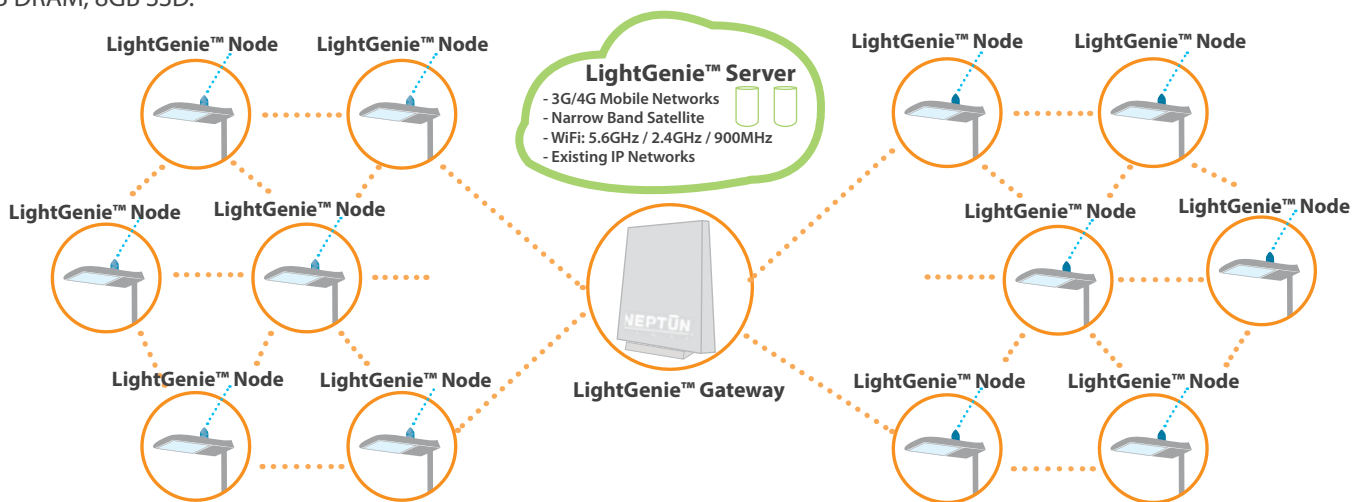




REVOLUTIONARY CONTROL

General Description & Application

Neptun's LightGenie™ GATEWAY revolutionizes the way lighting systems are managed and controlled. Operating on a highly secured, encrypted IPv6 full mesh wireless network. **1.)** The ultimate long range, high capacity solution for IoT and M2M networks, including municipal street lighting, monitoring, and control. **2.)** Multi-channel, capable of receiving different data rates on the same channel simultaneously. **3.)** Can be customized to suit all types of backhaul via Ethernet, Wi-Fi, GSM, GPRS, EDGE or CDMA for connection to Server or any Server selected by the end user. **4.)** Enclosed in NEMA 4 / IP67 enclosure for use in harsh environments. **5.)** High Capacity: Capable to connect and address up to 50,000 LightGenie™ NODES. **6.)** Long range communication: Receives data from nodes 2-5km away in dense urban areas and up to 15km in suburban areas. **7.)** Compatible with LoRaWAN. **8.)** Optional Host Computer inside with: CPU 1GHz, 2GB DRAM, 8GB SSD.



TECHNICAL DATA

Supply Voltage / Frequency	100-305 VAC ; 50/60Hz	Security	128 bit AES
Max Power Consumption	5W	Gateway to Central Asset Management System	TCP/IP Sockets with 256 bit AES Encryption
Operating Temperature	0°C - 60°C	GPS Gateway Locator	Yes, Google Maps Integrated, 3m Accuracy
Communication Type	RF Wireless, Self-Forming, Self-Healing, Mesh Network	Registration to Mesh Network of Nodes	Auto
Network Communications	IEEE 802.15.4 (6LoWPAN/FHSS)	Backhaul Communication	Ethernet/WiFi/GSM/GPRS/EDGE
Communication Frequency	902-928 MHz, Max Tx Power 1W, BW 250k & 500k (Multiband)	Surge Protection	ANSI C-High 10kV/10kA
Communication Spectrum	Spread Spectrum Frequency Hopping	Ingress Protection	IP67
Addressing Mode	IPv6 / IPv4	Compliance	FCC Part15, UL 916 Standards
Gateway to Node Communication	Mesh Network up to 1km line of sight	Warranty	5 Years
		Service Life Expected	10 Years



ORDERING INFORMATION

Full Control Model: LGN-GATEWAY