



The Inovonics EN6091 Gateway Mark II is a fully integrated and modular commercial security platform designed for unmatched reliability, rapid deployment, and effortless scalability. Built on Inovonics' industry-proven EchoStream® wireless mesh network, it delivers secure, long-range communication that thrives in demanding RF environments — without the complexity of wired infrastructure. The EN6091 Gateway Mark II is a hybrid control panel supporting wired and wireless intrusion and pendant devices.

Product Features

Flexible user interfaces include mobile app and RS485 connected and powered touchpad with battery backup

Supports up to 500 users, enabling secure access control perfect for commercial and institutional settings

Up to 256 supervised zones of any combination of wired and Inovonics wireless devices, providing ample scalability for small to large-scale installations, accommodating a wide variety of devices and configurations

Provides connections for two wired sounders to enhance audible alerting capabilities for emergency scenarios

Custom metal enclosure with room for panel, modules, and batteries simplifies installation, reduces footprint, and supports extended backup power

Arm away, arm stay and arm maximum arming modes provide customizable security settings for different occupancy scenarios, increasing user convenience and safety

Product Specifications

Dimensions	16.2" x 20" x 4.5"
Weight	18 lbs (8.2 kg) without batteries, ~30 lb (13.6 kg) with two 9 Ah
Operating temperature	32°F to 120°F (0°C to 49°C), 93% relative humidity; the control panel and power supply are intended for use in dry, indoor, locations within the protected premises
Network	EchoStream® 902 - 928 MHz North America; WiFi 802.11 b/g/n; 2.400-2.485 GHz; Ethernet 100/1000 Mbps; cellular LTE CAT 1 bis (Bands 2, 4, 5, 12, 13, 66)
Firmware updates	Mender
Power supply	Input: 120 Vac 60 Hz 48 VA; output: 16.5 Vac 2424 mA
Auxiliary power	16.5 Vac RMS 48 VA
Back up battery	Supports dual 12 V 9 Ah batteries; batteries must be installed for sounder to operate; panel does not start up on battery alone
Battery protection	Self-resetting, PTC fuses
Battery charger	Charge current 660 mA; recharges two 9 Ah to standby capacity within 48 hours

Product Specifications (continued)

EOL resistance Values	1000 Ω ; 2000 Ω (default); 2200 Ω ; 4700 Ω ; 5600 Ω , selectable, 5% tolerance or better
Bell output	All low-voltage outputs (auxiliary power, RS-485 bus 1 and 2, Bell 1, Bell 2, and PGM 1-3) are power-limited. BELL1 and BELL2 limited to 0.9 A each and 1.8 A total, short circuit on one output does not affect the other; opens or shorts generate a trouble message; back up battery must be installed for output to operate
PGM 1 and 2	1 k Ω to ground or 5 k Ω to 13 Vdc; over/under voltage protected; impedance protected
PGM 3	Maximum 1.5 A to ground, over/under voltage protected; no over-current protection
RS-485_1, RS-485_2, & Vaux	13.5 Vdc 0.9 A each, ripple less than 20 mV RMS, total current draw not to exceed 1.1 A from all three outputs, short circuit on one output does not affect the others; electronic fuse requires manual reset when tripped.
Regulatory certifications	UL 2610; UL 1023; ANSI/SIA CP-01 2019; CSFM; FCC Part 15 Class B; CAN ICES-003(B)/NMB-3(B)

Reference Materials (available at www.inovonics.com)

EN6091 Gateway Mark II Installation Instructions

EN6091 Gateway Mark II Programming Manual

Inovonics Intrusion System User Manual

Inovonics Intrusion System Brochure

- The range and performance of any wireless product depends on the structure and environment in which it operates.
- Continual enhancements to our products may cause specifications to change without notice.
- Inovonics supports recycling and reuse whenever possible. Please recycle these parts using a certified electronics recycler.

Technical documents

For technical documents visit us at <http://www.inovonics.com/support/tech-documents/> or use the QR code below.

