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Datasheet

EN6091 Gateway Mark II



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

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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 kΩ to ground or 5 kΩ 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.

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