
**EtherGap™ V 4.0 (US Patent # 11425102)**

Air Gap Controller with Data Bus Isolation and Out of Band Control Signaling

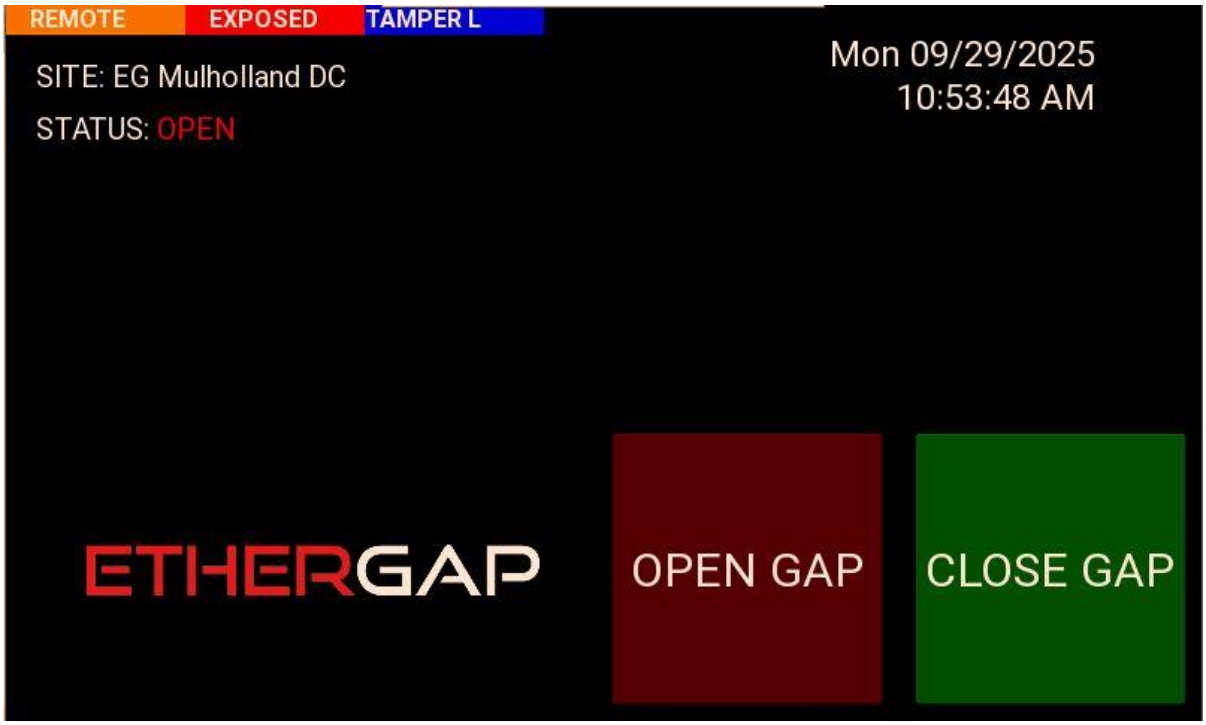
**Product Features Overview**

- Automated operation via scheduler interface. Pre-schedule any number of one-time or recurring air gap open/close events.
- Lockdown capability to prevent unauthorized access or operation.
- Front panel 5” touch screen allows for easy, instant operation at the device.
- Gigabit Ethernet port for separate administrative network. Remote access over dedicated admin network via VNC allows console access for any number of EtherGap devices from one console system.
- Gigabit Ethernet ports for Common, Normally Connected, and Normally Disconnected segments. Even with full power loss, the default states are preserved.
- 3 USB ports for accessories (keyboard, mouse, etc. ) or USB flash updates to system. (included for lifetime – no risk from downloaded attack)
- HDMI port and USB ports for dedicated console KVM access.
- Built on the Debian Linux operating system.
- Automated logging of all activity allows easy auditing and security maintenance as well as auditable compliance logs for regulated industries.
- Blockchain secured logging using SHA-256 cryptographic hashes (patent pending). Logs cannot be altered, replaced or deleted without triggering a tamper alert.
- Optional integrated UPS power system provides backup power for over 20 hours
- Lifetime Full Warranty. Made in the USA.

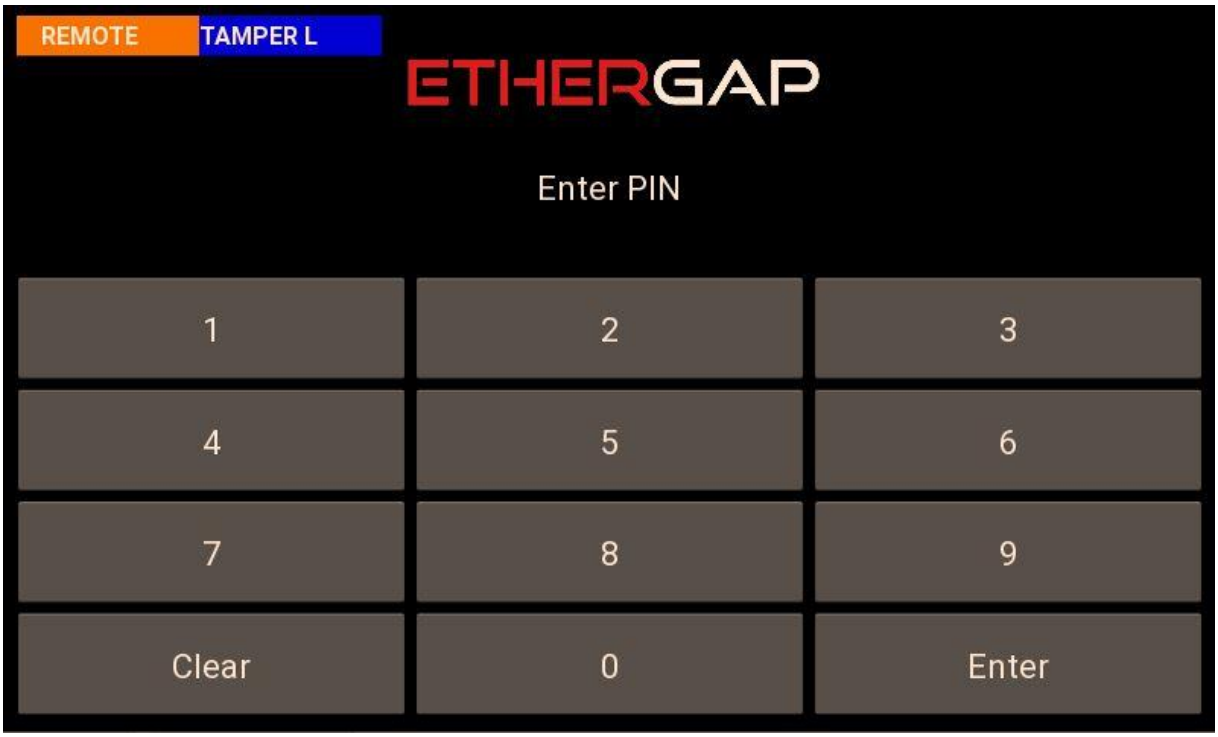
**Screen Images:**

**Main Screen with current date and time, deployment site location, touch operation buttons.**

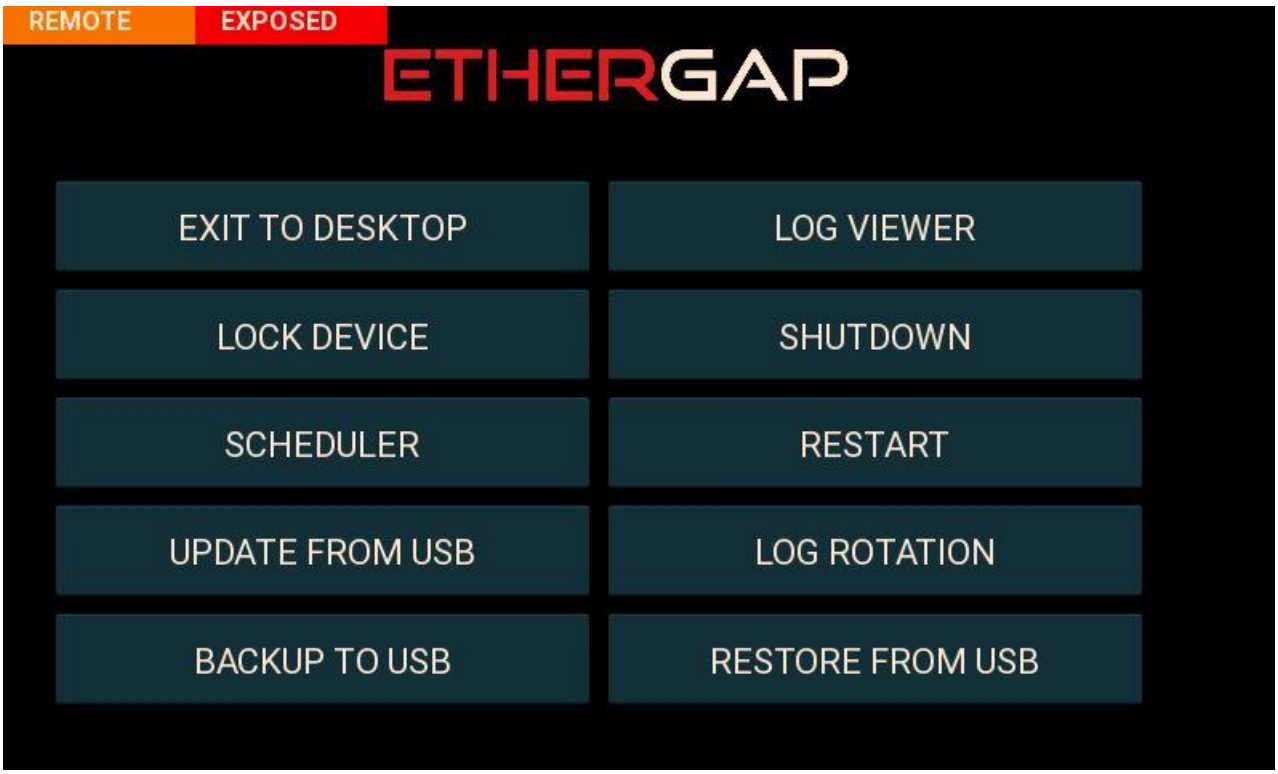
**Display indicators indicate 1) Remote access active 2) Admin interface exposed to WAN3) Log file has been tampered. (Tamper A would indicate archived logs tampered)**



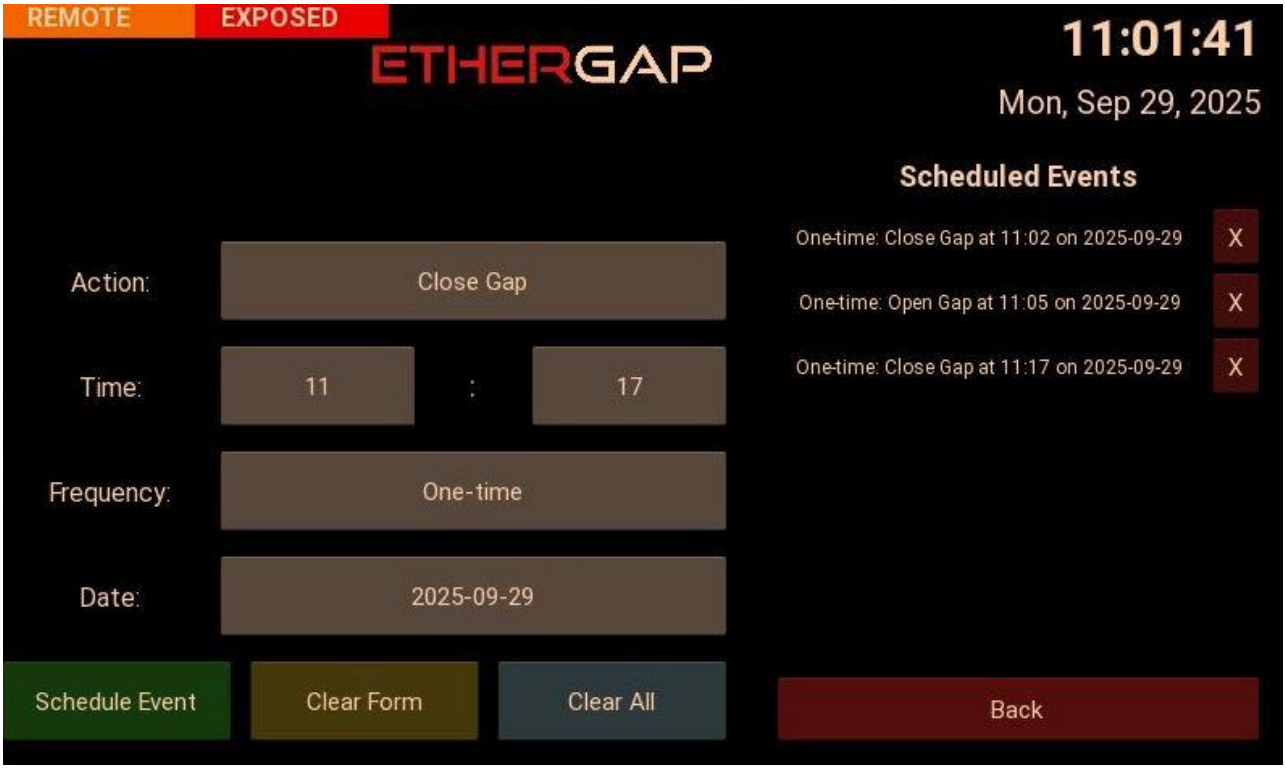

**Lock screen keeping system entirely inaccessible until PIN is entered.**



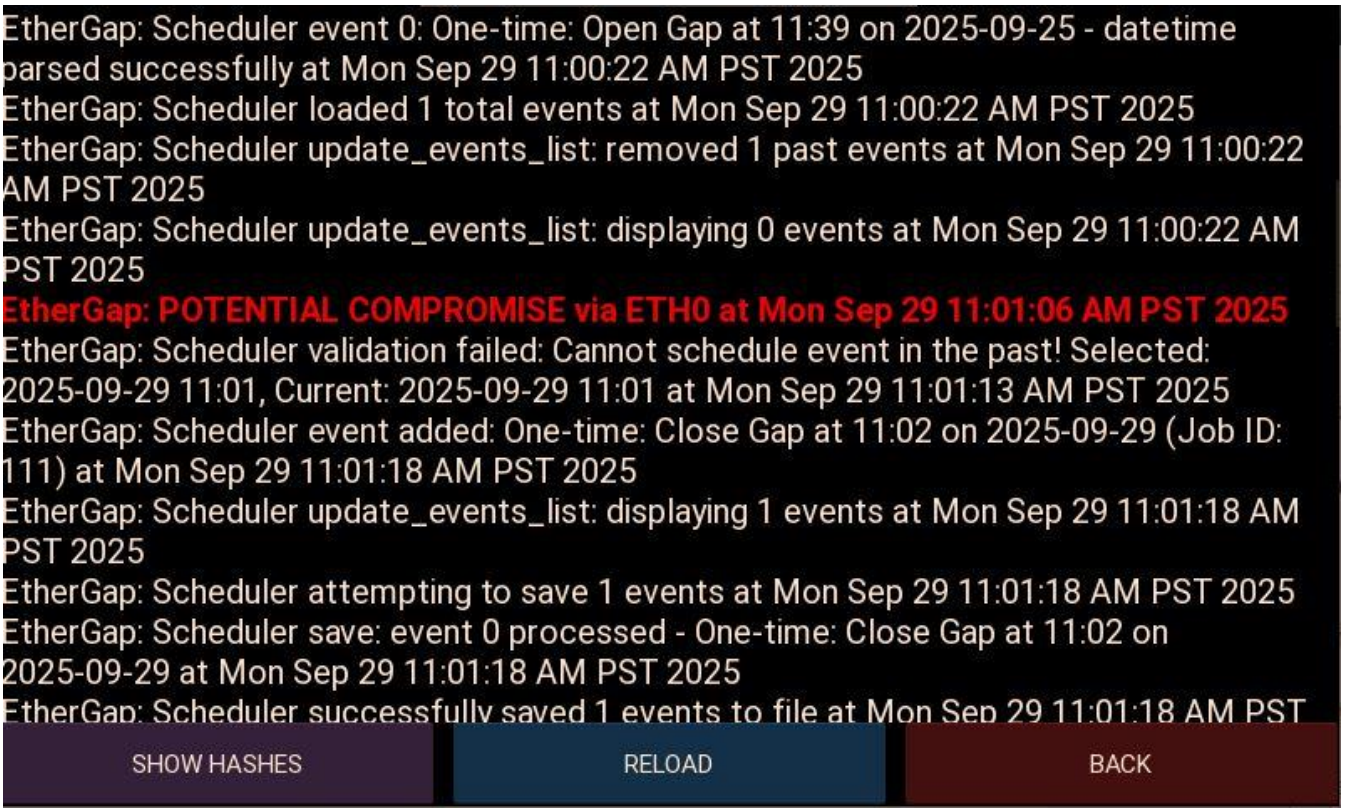
**Main Menu screen.**



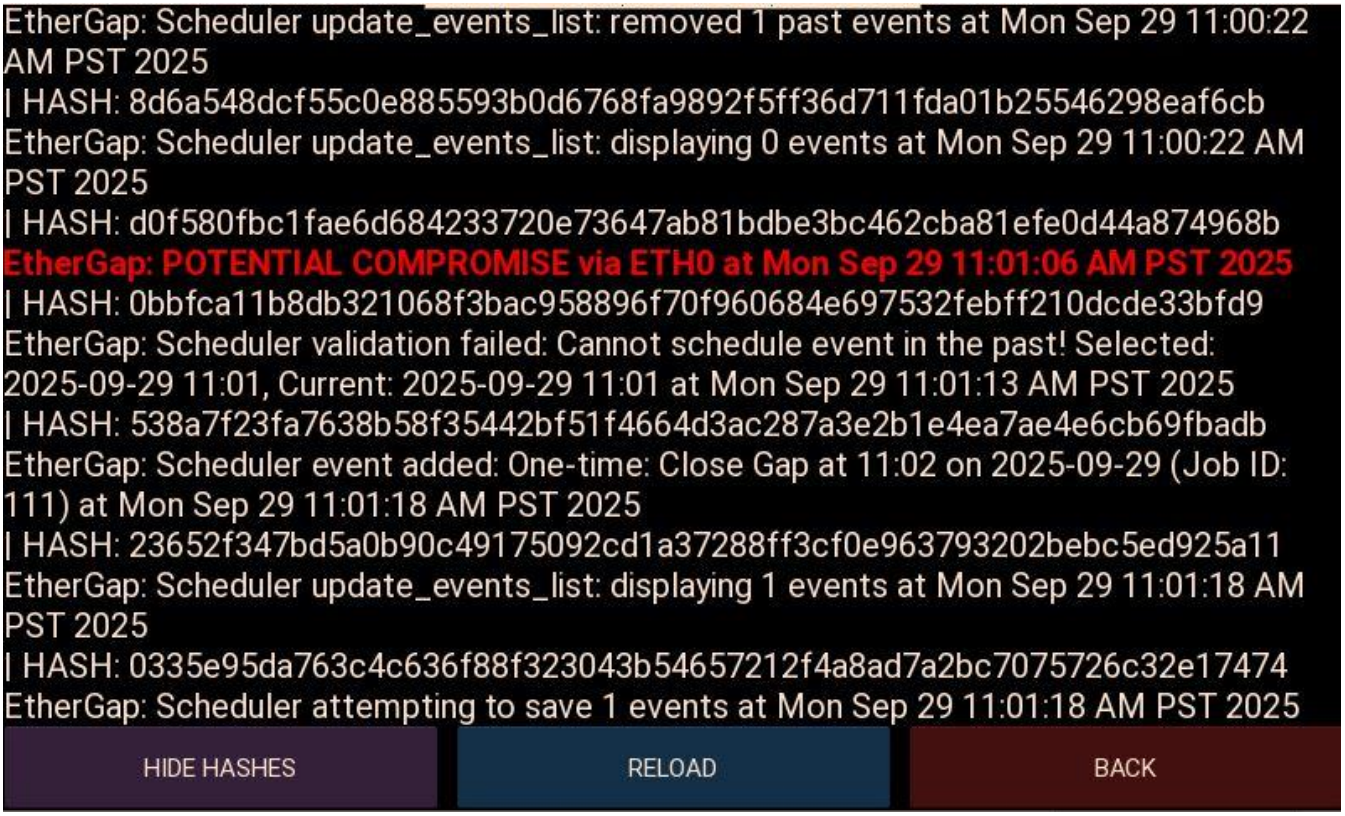

Scheduler screen. Any number of one-time or recurring events can be scheduled from here. One-time events disappear after execution while recurring events stay in the displayed list. All scheduling additions/removals and events are logged.



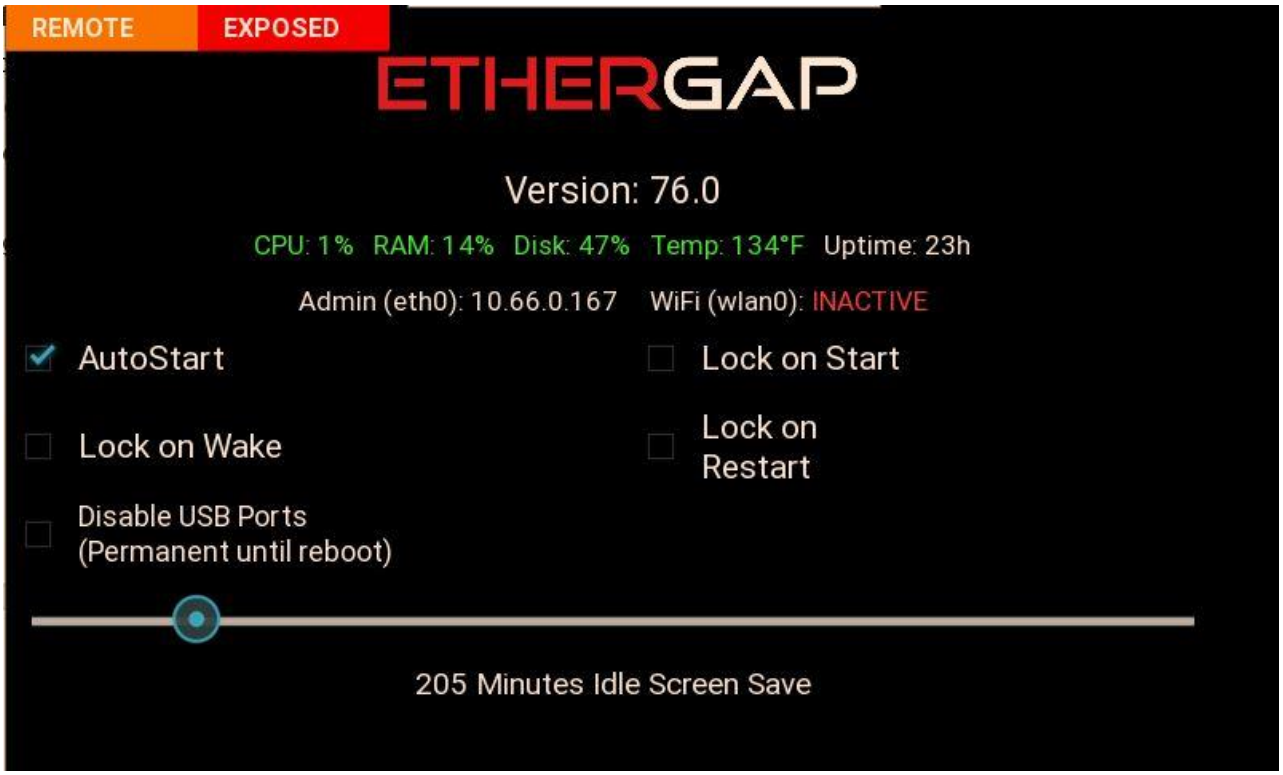
Log viewer screen. Critical and important events appear in red or yellow respectively. Events returning to normal after Critical or important are green when they resume normal status. Security hashes are hidden in this view.




In this view, hashes are visible. Each hash is calculated using the current log entry, system info and the previous entry's hash. A Genesis entry is created for the first log line using system specific data and a secret key held by EtherGap.



System status screen. CPU, RAM, Disk, and Temperature are continuously monitored and will alert if any reach warning or critical levels. Current administrative interfaces are monitored for connection/address. Various system characteristics can be set or adjusted here.




Linux Desktop. Experienced users can exit the EtherGap interface and access familiar Linux functions if desired. Daemon process run continuously to continue monitoring air gap status, log integrity, etc.

**Specifications:**

19” Rackmount or tabletop

2u rack height with 6” depth

Power: 5.1V DC at 5.0 A USB-C

Internal UPS option – full power for over 20 hours.

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