



# Napco Commercial Platform:

The most powerful, feature-rich platform for 24V commercial fire, burglary or combination burglary/fire, supporting up to 255 zones using robust line of fire and burglary devices in hardwire, wireless, conventional & addressable technologies

**GEM-C Firewolf Series 24V Commercial Intelligent Analog Addressable Fire Panels, NFPA72-compliant**, 96 outputs, 4 onboard NACs (6.5A total), expandable to 24, built in Sync/Strobe/Horn Module (System Sensor & Wheelock) and dual line DACT plus optional TCP/IP reporting. Powerful battery capacity up to 32Ah total. More addressable devices than any in its class; mile-long loop lengths and more device load each. Cost-effective retrofits -supports conventional legacy devices & existing wiring (all types/gauges). Comprehensive local and remote programming & diagnostics. Printable AHJ reports of analog device sensitivity settings with current readings (uploadable)

- > More zones/points – up to 255
- > More power – 7 amps
- > More NACs - 4 on board (expandable to 24)
- > Onboard strobe/horn sync
- > More standby power
- > 32 Amp hour battery capacity
- > Regulated 24V output

**GEMC Firewolf Conventional Fire Kits Also Available** ideal for waterflow applications and expandable small systems

**Firewolf Advanced Analog Addressable Commercial Fire Devices** support auto-drift compensation and maintenance alert function

**UL Commercial Grade Gemini Wireless Devices** with supervised tamper & automatic, continuously supervised signal strength (requires no manual test activation).

**Firewolf Menu-Driven Custom Alpha Annunciators** Same familiar Napco EZ-programming and usage. (Keyswitch support, too.) Customizable Quick-Start Preset Program & Auto-Learn of SLC Devices.



**Code-compliant Integrated Security & Access Control Option** Pre-Isolated Circuits & Power Customizable Quick-Start Preset Program & Auto-Learn of SLC Devices & Modular Access Control option. (Reference Models GEMC-BM/PS or -BSLC & GEM-ACM1D / -2D.)

**GEMC Addressable Burglary-Only Kits Also Available** in 96, 128 or 255 point configurations

**StarLink Universal Sole & Dual Path Fire Cellular & IP Communicators** Work with virtually any 12V-24V FACP. Choice of cyberprotected leading networks, replace 2 phone lines per panel, meet or exceed today's codes, UL864 and NFPA72, etc.

**NAC Extender** provides nearly (Reference SLE-Series Communicators) 7A and 4 onboard NACs with up to 2A ea; up to 24V 16Ah total battery capacity. Easily distributes synced bell and strobe outputs with built in module. Supervised and bus-activated with no separate modules or programming required.

**Compliances** - NFPA 72, UL Commercial Fire, UL864 9th Ed., UL985, CSFM and NYC Fire Department Certifications.

# Napco Commercial™ Platform GEMC System Components: 24V Fire, Burglary or Combination Burg./Fire Systems

## SYSTEM

- Main Control board supports up to (2) Addressable SLCs (Signaling Line Circuit controllers).
- Fire Addressable SLC Loop Controller
- Burg Addressable SLC Loop Controller
- Fire 4-wire bus for keypads and conventional devices
- Burglary Control Module
  - Provides Isolated Burg 4-wire bus for keypads and conventional devices
  - Provides independent Burg battery connection and charger
  - Provides 12V power
  - Independent Burg Bell output
- Power Supply includes either 4A or 7A @ 24V
- Integrates with NAPCO ACM – Access Control Modules
- RS-232 Printer Module for optional onsite parallel printer
- Supports a maximum of 15 Keypads, mounted anywhere on the bus, fire GEMC-FK1 or burg. GEMC-BK1. ( 7 fire keypads, max. Or, as few as 1 fire keypad required on fire system or equipment savings.)
- Addressable SLC Loop Isolator (optional use - for some fire applications requiring increased circuit integrity)
- Dual Phone Line built in
  - 2 Onboard Serial Ports - One for internet reporting; One for high-speed local downloading
- TCP/IP Internet reporting module
- Regulated Auxiliary Power Supplies - Commercial Burglary or fire, 12V regulated 2A or 1.75A version with plug in transformer
- Choice of two panel enclosures - Between the studs enclosure, recess or surface mount. Larger version, with reversible door, supports up to 32Ah at 24V. Dimensions: 24" x 14.25" x 5.2" (H x W x D) without cover. Removable battery shelves, accommodate pairs of 7Ah, 7.5Ah and 8Ah batts. etc. Smaller Enclosure – supports 16Ah at 24V. Dimensions: 16" x 14.25" x 5.2" (H x W x D) without cover. (16Ah battery backup capacity).

## INPUTS

### Up to 255 Zones. Points/Zones can come from any of the following initiating devices (in up to 8 partitionable areas):

- Addressable SLC Loop (Burg or Fire) – supports up to (2) 126 point loops
- Commercial RF Receiver –
- Supports Commercial Wireless Fire devices
  - Wireless Smoke Detector
  - Wireless Heat Detector
- Supports Commercial Wireless Burglary devices
  - Wireless PIR Sensor
  - Wireless Dual Technology Sensor
  - Wireless Glass break Sensor
  - Wireless 2-Point Window/Door Transmitter
- Conventional 1- to 4-zone EZM Expansion modules on the 4-wire burg or fire bus or SLC loops
- Conventional 2-wire or 4-wire smoke detector input module
- Addressable SLC Fire Devices Supported:
  - Analog Smoke Detector
    - Heat Detector
    - Duct Detector
    - Pull Station
    - Conventional Zone Module
    - Short Circuit Isolator
- Addressable SLC Burg Devices Supported:
  - 1 Zone Burg Input Module
  - 4 Zone Burg Input modules
  - PIR Motion Sensor
  - Dual Tech Microwave/PIR Sensor

## OUTPUTS

### Up to 96 outputs

- Four on board Class B or 2 Class A NAC circuits, 2 amps each, total 6.5 amps at 24V
- Built in Wheelock and System Sensor NAC sync/strobe/horn protocol allows initial silence of audible appliances while maintaining visual notification, without the use of additional modules.

## Napco Commercial Platform Systems Simultaneously support all-new UL commercial Firewolf fire and Gemini burglary devices in hardwire, wireless and addressable technologies



- Addressable SLC Fire Devices: Supervised relay, unsupervised relay
- Addressable SLC Burg Devices: unsupervised relay
- Burg/Fire 4-wire bus devices: 8 zone form C relay (GEMC-RM3008), 8 open collector output (GEMC-OUT8)

## Napco Commercial Platform Advantages

- Easy Wire Compatibility -SLC controller supports shielded, unshielded, twisted and untwisted wire - ideal for retrofits
- Longer SLC loop lengths, support more device load each, too (see below for distance at maximum device load in alarm/standby each)
  - 10,000ft. #14AWG • 6,200ft #16AWG • 4,000 ft. #18AWG
- Support for Legacy and Existing Notification Appliances - One NAC output configurable for 12V for easy retrofit compatibility
  - UL Regulated NAC outputs
- Automatic drift compensation for system's analog smoke detectors
- Separate 7A NAC Extender – (4) NAC's, may be installed anywhere on the 4-wire bus. Provides universal FACP support.
- Keypads mount anywhere on the bus and have flash-able firmware – for updates via Quickloader
- Smoke Obscuration Report -Quickloader device sensitivity report allows the printout of a report for the AHJ listing the current status of all analog smoke detectors in the system including the programmed obscuration level for each device and the actual sensitivity reading for each device. Report is generated in 3 ways- either remotely (uploaded) or locally through notebook PC or use optional onsite printer.
- Isolated backup battery circuits for Burglary and Fire for EZ backup calculation and AHJ compliance; allows dealer to accommodate separate backup times for burg and fire. This allows burg system to drop out after burg battery depletion, while fire system is maintained and extremely stable for extended period.
- Full line of UL Commercial Devices for more flexibility & labor-savings Example, Use Gemini Commercial Wireless 2-input module (GEMC-WL-WD2) to convert any UL listed device into a UL wireless device, ideal for sprinkler supervisories or for use with pull stations (mounts on top of wall/conduit or in deep single-gang box (plastic).

## Firewolf Fire-Only 24V Intelligent Addressable Fire Configuration, NFPA72

- Main Control board - supports (1) Addressable Fire SLC controller
- Fire 4-wire bus for keypads and conventional devices
- Power Supply 7A and 4A
- RS-232 Printer Module
- Fire Keypad with Gemini-style Menu-functionality
- Dual Phone Line built in; Synch module built in (System Sensor & Wheelock protocols)

## NAC Extender - Powerful flexibility

- Nearly 7Amps power
- 4 onboard NACs with up to 2A ea., expandable for up to 24 per system
- Up to 16Ah total battery capacity
- Regulated 24V Aux. power
- Distributes synched bell and strobe outputs with built-in module
- Monitors AC, battery trouble, tamper and ground fault on Napco bus -or- provides universal FACP support.

## Gemini-C Intrusion-Only Configuration, Commercial Conventional/Addressable 255-Zone Burglary System

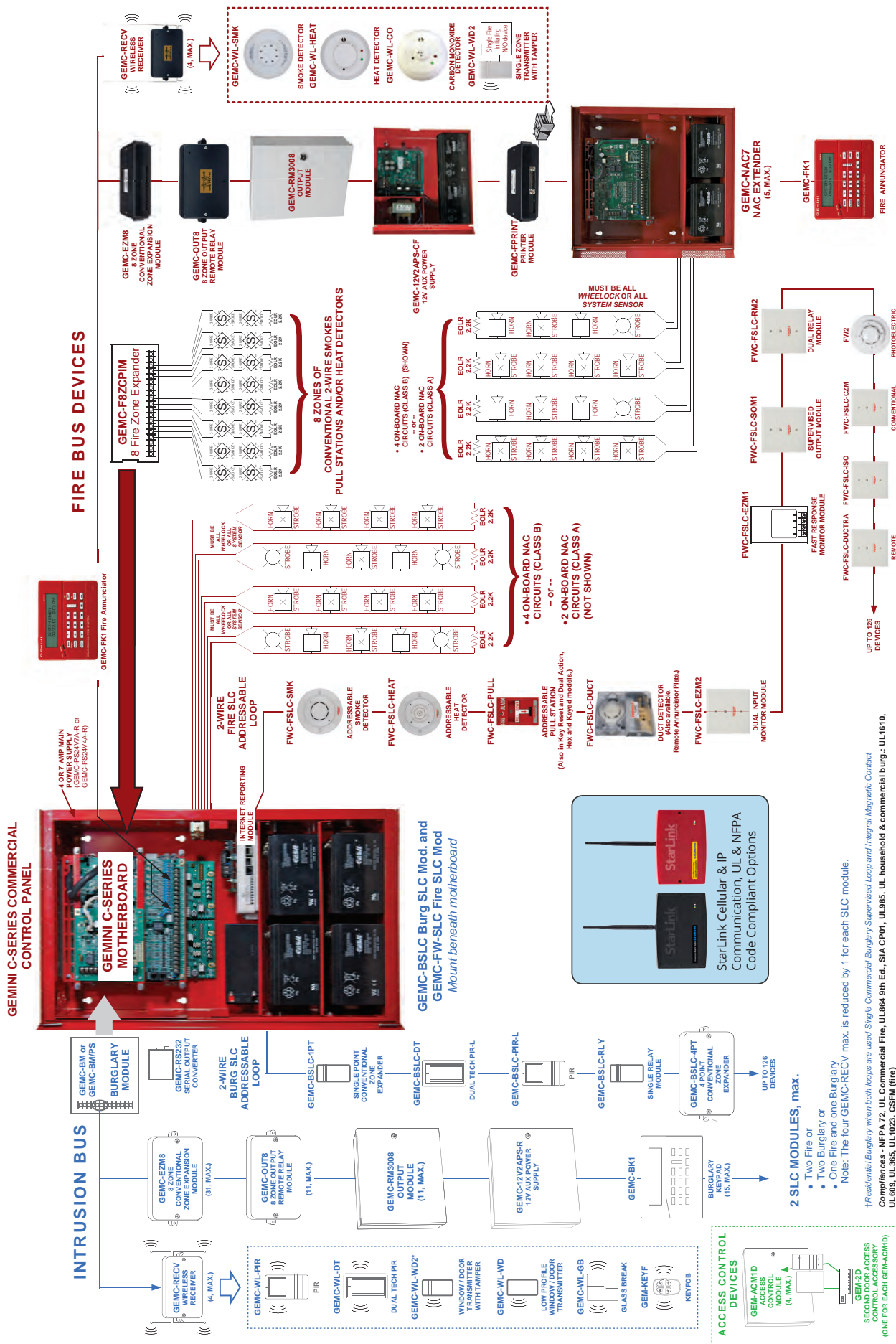
- Supports full line of new GEMC Commercial-rated addressable conventional, or wireless devices simultaneously
- 8 to 255 fully-configurable zones, with up to 8 partitions
- Familiar Napco Quickloader up/downloading and keypad operation
- 32Ah, max. battery capacity

## Agencies

NFPA 72, UL Commercial Fire, UL864 10th Ed., SIA CP01, UL985. UL household & commercial burg.: UL1610, UL609, UL365, UL1023. CFM

## GEMC & FIREWOLF SYSTEM COMPONENTS

Platform supports commercial analog, addressable, wireless or conventional fire or burglary devices.





# NAPCO COMMERCIAL GEMINI-C & FIREWOLF SERIES SYSTEM ORDERING INFORMATION

Napco Commercial Combo. Burglary/Fire Kits	
<b>GEMC-COMBO255KT</b>	<b>255 Point GEM-C Commercial Combo. Fire/Burg System Kit</b> <ul style="list-style-type: none"> <li>• 24V Panel, 255 Points via commercial addressable, wireless or conventional fire or burg. devices, 4 on board NACs, 8 partitions (No Loop Isolator/Extender req'd)</li> <li>• 7 Amp, 24V Power Supply</li> <li>• Burg. Module, with power supply with built in bus isolator for complete separation of fire and burg power and battery standby operation</li> <li>• Built in horn/strobe synch. module on each NAC</li> <li>• Built in dual line communicator; dual onboard serial ports</li> <li>• Quickloader up/downloading including remote smoke obscuration reporting</li> <li>• Locking, Large Red Enclosure, 16 x 25" reversible door, with 14.25" x 25" base. Houses up to 32Ah battery backup.</li> <li>• Menu-driven LCD Fire Keypad mounts anywhere on bus (Also, full keyswitch support)</li> </ul>
<b>GEMC-COMBO128KT</b>	<b>128 Point GEM-C Commercial Combo. Fire/Burg System Kit</b> (As above, but with) <ul style="list-style-type: none"> <li>• 24V Panel, 128 Points via commercial addressable, wireless or conventional fire or burg. devices, 4 on board NACs, 8 partitions (No Loop Isolator/Extender req'd)</li> </ul>
<b>GEMC-COMBO32KT</b>	<b>32 Point GEM-C Commercial Combo. Fire/Burg System Kit</b> (Similar to above, but with) <ul style="list-style-type: none"> <li>• 24V Panel, 32 Points via commercial addressable, wireless or conventional fire or burg. devices, 2 on board NACs, 8 partitions (No Loop Isolator/Extender req'd)</li> <li>• Locking, Medium Red Enclosure, 16 x 17" door, with 14.25" x 16" base. Houses up to 16Ah battery backup.</li> </ul>
<b>GEMC-BURG96KT</b>	<b>96pt GEMC Addressable Commercial Burglary System Kit</b> <ul style="list-style-type: none"> <li>• 24V Panel, 96 Points via commercial addressable, RF or conv'l burg. devices, 7 partitions</li> <li>• 4 Amp, 24V Power Supply</li> <li>• Locking, Medium White Enclosure, 16 x 17" door, with 14.25" x 16" base.</li> <li>• Addressable SLC Burg Module, supports up to 96 addressable SLC burg devices</li> <li>• Built in dual line communicator; dual onboard serial ports</li> <li>• Quickloader up/downloading</li> <li>• Menu-driven LCD Burglary Keypad with built-in 4 zone EZM, mounts anywhere on bus</li> </ul>
<b>GEMC-BURG128KT</b>	<b>128pt GEMC Addressable Commercial Burglary System Kit</b> (As above with 128pts)
<b>GEMC-BURG256KT</b>	<b>256pt GEMC Addressable Commercial Burglary System Kit</b> (As above with 256pts)
Napco Commercial Fire Kits	
<b>GEMC-FW-255KT</b>	<b>255 Point GEM-C Firewolf™ 24V Commercial Fire System Kit</b> <ul style="list-style-type: none"> <li>• 24V Panel, 255 Points via commercial addressable, wireless or conventional fire devices, 4 on board NACs providing up to 6.5A notification power</li> <li>• 7 Amp, 24V Power Supply</li> <li>• Built in horn/strobe synch. module on each NAC</li> <li>• Built in dual line communicator; dual onboard serial ports</li> <li>• Quickloader up/downloading including remote smoke obscuration reporting</li> <li>• Locking, Large Red Enclosure, 16 x 25" reversible door, with 14.25" x 25" base. Houses up to 32Ah battery backup.</li> <li>• Menu-driven LCD Fire Annunciator mounts anywhere on bus. (Also, full keyswitch support)</li> </ul>
<b>GEMC-FW-128KT</b>	<b>128 Point GEM-C Firewolf™ 24V Commercial Fire System Kit</b> (As above, but with) <ul style="list-style-type: none"> <li>• 24V Panel, 128 Points via commercial addressable, wireless or conventional fire devices, 4 on board NACs providing up to 6.5A notification power</li> </ul>
<b>GEMC-FW-32KT</b>	<b>32 Point GEM-C Firewolf™ 24V Commercial Fire System Kit</b> (Similar to above, but with) <ul style="list-style-type: none"> <li>• 24V Panel, 32 Points via commercial addressable, wireless or conventional fire devices, 2 on board NACs providing up to 4A notification power</li> <li>• Locking, Medium Red Enclosure, 16 x 17" door, with 14.25" x 16" base. Houses up to 16Ah battery backup.</li> </ul>
<b>GEMC-FW32CONVKT</b>	<b>Conventional Fire System Kit</b> <ul style="list-style-type: none"> <li>• Conventional 8-zone 2-wire fire input module, for conv'l 2-wire smokes or any conv'l fire detection device</li> <li>• Built in horn/strobe synch. module on each NAC</li> <li>• Built in dual line communicator; dual onboard serial ports</li> <li>• Locking, Medium Red Enclosure, 16 x 17" door, with 14.25" x 16" base.</li> <li>• Menu-driven LCD Fire Annunciator mounts anywhere on bus</li> </ul>
Commercial Fire & Burglary Accessories and Options	
<b>GEMC-BM/PS</b>	<b>Burg Module with 12V power supply</b> provides isolated 4-wire burg bus for burg keypads and devices, plus 12V power output for aux. devices. Independent Burg. Bell output. Complete separation of fire and burg power, plus indep. burg. battery connection and charger for indep. burg. standby operation in power failure.
<b>GEMC-BM</b>	<b>Burg Module</b> , isolated 4-wire burg bus for burg keypads and devices, plus 12V power output for aux devices. Indep. Burg bell output.
<b>GEMC-FW-SLC</b>	<b>Addressable SLC Fire Module</b> , supports up to 128 addressable SLC fire devices. Up to 2 connect to GEM-C panel.
<b>GEMC-BSLC</b>	<b>Addressable SLC Burg Module</b> , supports up to 128 addressable SLC burg devices. Up to 2 connect to GEM-C panel.
<b>GEMC-FBZCPIM</b>	<b>Conventional 8-zone 2-wire fire input module</b> . Plugs into GEM-C panel, for conventional 2-wire smokes or any conventional fire detection device.
Burglary Peripherals	
<b>GEMC-BK1</b>	<b>LCD Burglary Keypad</b> for Combo. System, with 4-zone EZM built in (Requires GEMC-BM or BM/PS Module.)
<b>GEMC-BSLC-4PT</b>	Addressable <b>SLC 4 point input</b> expansion module
<b>GEMC-BSLC-1PT</b>	Addressable <b>SLC 1 point input</b> expansion module
<b>GEMC-BSLC-DT</b>	Addressable <b>SLC Commercial Dual Tech</b> Microwave/PIR, 40 x 40'
<b>GEMC-BSLC-PIR</b>	Addressable <b>SLC Commercial PIR</b> , 50 x 50'
<b>GEMC-BSLC-RLY</b>	Addressable <b>SLC Commercial 1 point output</b> module
<b>GEMC-WL-PIR</b>	<b>Gemini Commercial Wireless PIR</b> , 50 x 50'
<b>GEMC-WL-GB</b>	<b>Gemini Commercial Wireless Glassbreak</b> , Acoustic 25'
<b>GEMC-WL-DT</b>	<b>Gemini Commercial Wireless Dual Tech</b> Microwave/PIR, 40 x 40'
Fire Peripherals	
<b>GEMC-FK1</b>	<b>LCD Fire Red Annunciator</b>
<b>GEMC-WL-SMK</b>	<b>Gemini Commercial Wireless Smoke</b> , Photoelectric
<b>GEMC-WL-HEAT</b>	<b>Gemini Commercial Wireless Heat</b> , 135° F
Common Peripherals – For Commercial Fire and/or Burglary Systems	
<b>GEMC-WL-WD2</b>	Gemini Comm'l Wireless <b>2-input module converts any UL listed device into a UL wireless device</b> (ex., pull stations or sprinkler supervisories.)
<b>GEMC-REVC</b>	Gemini Commercial Wireless <b>255 point RF Receiver</b> (up to 4 per system, max.)
<b>GEMC-EZM8</b>	<b>8-point expansion</b> module
<b>GEMC-FPRINT</b>	Parallel <b>printer module</b>
<b>GEMC-RM3008</b>	<b>8 Form C Relay Output</b> Module
<b>GEMC-NL-MOD</b>	<b>Internet Reporting</b> Module
<b>GEMC-RS232</b>	<b>RS232 Adapter</b> for serial output from GEMC Panel
<b>GEMC-OUT8</b>	<b>PGM Output Module</b> , 8 open collector PGM outputs
<b>GEMC-KOTAMPERKT</b>	<b>Merchantile Tamper Kit</b> , for large panel enclosures, supervised. (Not necessary if housing is recess-mounted.)
Firewolf Peripherals	
<b>FWC-FSLC-SMK</b>	Addressable <b>Analog SLC Smoke</b> , photoelectric, head**
<b>FWC-FSLC-HEAT</b>	Addressable <b>Analog SLC Heat</b> , 135°F, head**
<b>FWC-FSLC-DUCT</b>	Addressable <b>SLC Duct</b> smoke detector, photoelectric
<b>FWC-FSLC-EZM2</b>	Addressable <b>SLC 2-zone conventional expansion</b> module. Uses one address on SLC loop, but yields 2 indepent contact monitoring circuits, for pull stations, water flow and other dry contact alarm initiating devices.
<b>FWC-FSLC-EZM1</b>	Addressable <b>SLC 1-input conventional</b> module, similar to usage above.
<b>FWC-FSLC-CZM</b>	Addressable <b>SLC single module</b> , for monitoring of dry contacts, ie., pull stations and conv. smokes
<b>FWC-FSLC-RM2</b>	Addressable <b>SLC 2-output module</b> (requires 1 SLC address)
<b>FWC-FSLC-ISO</b>	Addressable <b>SLC Short Circuit Module</b> . (Optional use, for certain apps. only; meets Class A, Style 7 loop reqts.)
<b>FWC-FSLC-SOM1</b>	Addressable <b>SLC Fire supervised output module</b> . Application examples: elevator recall, HVAC shutdown, add'l NAC output with power supply
<b>FWC-FSLC-PULL</b>	Addressable <b>SLC Fire Pull Station</b>
<b>FWC-FSLC-PROG2</b>	<b>Tool for address-programming</b> SLC devices
<b>FWC-FSLC-SMK6B</b>	** <b>Smoke/Heat 6" Base</b> , required for FWC-FSLC- SMK and -HEAT devices
Options	
<b>GEMC-12V2APS-CF</b>	<b>12VDC Power Supply for Fire Bus</b> , remote supervised. Direct 120VAC connection, supports 2ea. 12V, 7Ah standby batteries.
<b>GEMC-12V2APS-R</b>	<b>12VDC Power Supply for Burg. Bus</b> , remote supervised. Powered by supplied 16.5V, 50VA plug-in transformer, supports 2ea. 12V, 7AH standby batteries.
<b>GEMC-NAC6</b>	<b>Remote 4-output NAC Extender</b> , for 6.5A ttl, or 2A, max. on any 1 output. Red 14 x 16" can, connects to 120VAC, supports 32Ah standby batts. Supervised, fire bus connection. System Sensor and Wheelock NAC synch. (5 per system, for 20 add'l NAC circuits total.)
<b>GEM-ACM1D</b>	<b>Access Control Module</b> (with power supply, provision for back up battery, in enclosure, plug-in transformer), 1 door kit
<b>GEM-2D</b>	<b>Access Add-on 2 door plug-in PCB</b> for expansion of door capacity in above.