



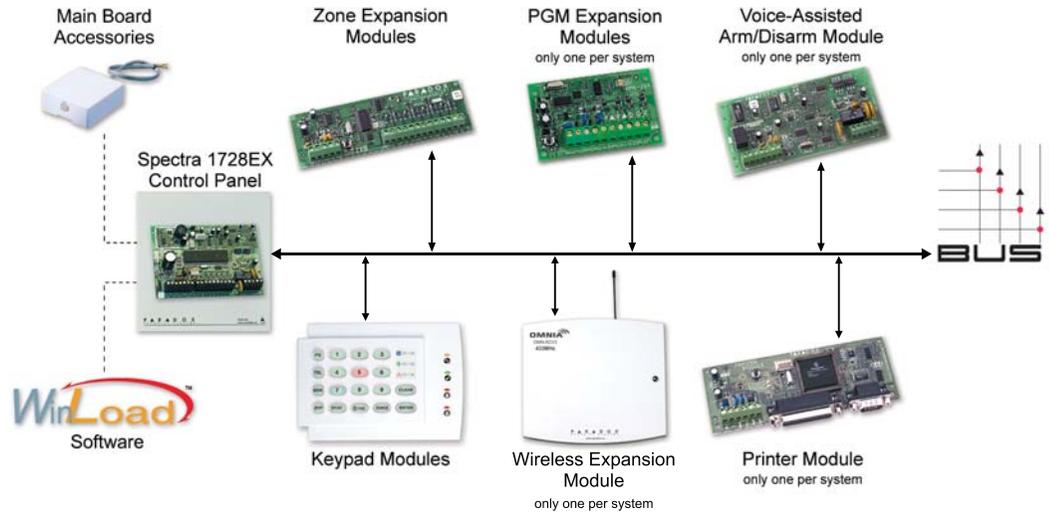
Expandable Security Systems

Spectra offers a combination of innovative features and an advanced communication bus for a unique expandable security system. Through its communication bus, Spectra can be expanded via wireless and hardwired expansion modules and a variety of accessory modules. With its reliable communication technology, flexible expansion and great-looking keypads, Spectra is an ideal security system for any residential or commercial installations that require up to 16 zones of protection.

System Overview

- **Expandable to 16 zones** (1738)
- **Expandable to 15 zones** (1728EX and 1759EX)
- **6-zone local security system** (1727)
- **2 partitions***
- **48 user codes***
- **256 event buffer***
- **Built-in wireless receiver** supports 8 wireless zones and 8 remote controls (1759EX only)

* Except 1727 see page 2

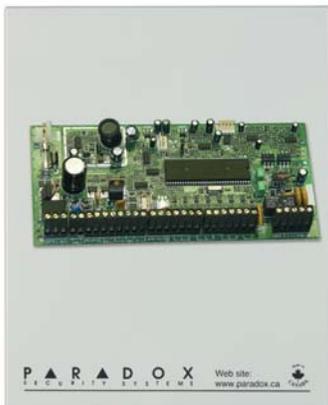


Control Panels



1728EX:
1738:

1728EX



1738

7-Zone Control Panel 16-Zone Control Panel

- 4-wire communication bus
- 1728EX: 5 zone inputs + 2 keypad zones
- 1738: 7 zone inputs (14 zones with zone doubling) + 2 keypad zones
- Up to 8 expansion zones
- 1728EX: 2 PGM outputs
- 1738: 2 PGM outputs and 1 alarm relay
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line (supports Contact ID, Pager, and slow formats)
- CTR-21 approved dialer
- On-board connectors for backup battery, service keypad, serial port, and Memory Key
- Program using any keypad module through the bus, remotely or onsite using a modem through the dialer (300 baud)
- Includes one 8" x 10" x 3" (20cm x 25cm x 8cm) metal box or one optional 11" x 11" x 3" (28cm x 28cm x 8cm) metal box

Specifications: connect modules up to 250ft (75m) using 18AWG or 22AWG; 1A (1728EX) or 1.5A (1738) switching power supply (requires 16.5Vac/40VA transformer and 12Vdc/7Ah backup battery); 700mA auxiliary output (fuseless shutdown at 1.1A); 1A bell output (fuseless shutdown @ 3A); one 150mA PGM transistor output; one 1A PGM high-current transistor output (1738 only); one form C alarm relay output rated at 5A/28Vdc, N.C./N.O. (1738 only)



1759EX:

15-Zone Wireless Control Panel

Same features as the 1728EX plus:

- Built-in Omnia wireless receiver supports 8 wireless zones and 8 remote controls
- Supports all Omnia transmitters (refer to the Omnia technical brochure)
- 2 PGM outputs and 1 alarm relay

Specifications: frequency of 433MHz or 868MHz; -120dBm sensitivity; di-pole antenna; one 150mA PGM transistor output; one 2.5A PGM high-current transistor output; one form C alarm relay output rated at 5A/28Vdc, N.C./N.O.



1727:

6-Zone Local Control Panel

- 6 zone inputs
- 8 user codes (no partitioning)
- 2 PGM outputs and 1 alarm relay
- 1 bell output and 1 auxiliary output
- On-board connectors for backup battery and service keypad
- Program with any keypad module through the keypad bus
- Includes 8" x 10" x 3" (20cm x 25cm x 8cm) metal box or optional 11" x 11" x 3" (28cm x 28cm x 8cm) metal box
- No dialer, no event buffer
- No support for Spectra modules other than keypads

Specifications: connect keypad modules up to 250ft (75m) using 18/22AWG; requires 16Vac/20VA transformer and 12Vdc/4Ah backup battery (5A fuse); 400mA auxiliary output (1A fuse); 1A bell output (3A fuse); two 50mA PGM transistor outputs; one form C alarm relay output rated at 5A/28Vdc, N.C./N.O.; anti-tamper switch (optional)

System Accessories



APR3-HUB2: Hub and Bus Isolator

- Divide the bus into two completely isolated outputs (if one output fails, the other will continue to function)
- One input port, 2 completely isolated output ports
- Each output port provides communications up to 250ft (75m)



PMC-3: Hand-Held Plug-in Memory Key

- Download or upload control panel programming in less than 5 seconds
- Connect directly to memory connector on the control panel
- No need for a telephone line, PC or any other peripheral device



ADP-1: Telephone Line Adapter

- Simulate a telephone line for on-site uploading and downloading
- Direct connection from the PC's modem to the control panel's dialer
- 300 baud communication

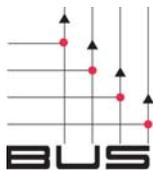


UDS-2000: WinLoad Installer Upload/Download Software

- User-friendly programming and monitoring of Spectra and Digiplex series
- Remote or on-site upload/download using most standard modems at 300 baud
- Multiple users, groups and databases
- Network compatible
- Event display and advanced printing of events and zone/user settings
- Comprehensive database management tools
- Supports 9 languages simultaneously

Minimum requirements: Microsoft Windows® 95, 98, 2000, NT, ME or XP; 400MHz CPU; 64MB RAM; 250MB of free hard disk space

Overview of System Modules



Features and Specifications Common to All Modules

- Connect modules anywhere on the 4-wire bus in a star or daisy chain configuration
- Program modules through the bus using a keypad module or the WinLoad software
- Modules with an APR3- prefix as part of their model number and the OMN-RCV3 feature Auto-Panel Recognition, enable them to function with Spectra or Digiplex series
- Auto-Panel Recognition greatly facilitates stocking and servicing since only one model needs to be kept on hand, resulting in lower servicing and inventory costs
- Operate at 12 to 16Vdc and -20°C to 50°C (-4°F to 122°F)

Keypad Modules



1640 shown with door open

1640:

Icon LCD Keypad Module

- Icons to display the status of up to 16 zones
- Icons to display regular, force, stay and instant arming (per partition)
- Icons to display troubles, fire, tamper, bypassed zones and alarm memory
- Display time using 12hr or 24hr format
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 button-activated panic alarms
- Adjustable backlight and contrast

Specifications: 90mA max.; anti-tamper switch (optional)



1641 shown with door open

1641:

32-Character LCD Keypad Module

1689:

16-Zone LED Keypad Module

- 1641: 32-character LCD with programmable labels
- 1689: 16-zone LED display with separate arm and stay LEDs per partition
- 1641: Available in one of 11 languages (English, Czech, Finnish, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Slovak or Spanish)
- 1689: Available in one of 3 languages (English, French, or Spanish)
- 1 keypad zone input
- 1 PGM output (1641 only)
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight, contrast (1641 only) and scroll speed (1641 only)

Specifications: 80mA (1641) or 115mA (1689) maximum current consumption; 50mA PGM transistor output (1641 only); anti-tamper switch (optional)



1689 shown with door closed



1686V shown with door open

1686V/1686H: 10-Zone LED Keypad Modules (vertical/horizontal)

- 10-zone LED display
- Separate arm LEDs per partition
- Patented Key Light display (button lights up to indicate an open zone)
- Available in one of 3 languages (English, French, or Spanish)
- 1 keypad zone input
- Independently set chime zones
- 7 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight

Specifications: 115mA maximum current consumption; anti-tamper switch (optional)



1686H shown with door closed

Zone Expansion Modules

SPC-ZX4 or APR3-ZX4: 4-Zone Expansion Module

SPC-ZX8 or APR3-ZX8: 8-Zone Expansion Module

- Add 4 zones (SPC-ZX4/APR3-ZX4) or 8 zones (SPC-ZX8/APR3-ZX8)
- Use zone input as an anti-tamper switch input
- 1 PGM output (SPC-ZX8/APR3-ZX8 only)
- Auto-Panel Recognition (APR3-ZX4 and APR3-ZX8 only)





Specifications: 28mA maximum current consumption; 50mA PGM transistor output (SPC-ZX8 and APR3-ZX8 only).

Wireless Expansion Modules



OMN-RCV3: Omnia Wireless Expansion Module

- 8 wireless zones and 8 remote controls (independent of security zones)
- Supports Omnia transmitters (see Omnia technical publication)
- Fully supervised (low battery, tamper and check-in)
- Transmitter signal strength display
- 1 PGM output (+1 optional)
- Compatible with 1728EX and 1738

Specifications: 50mA maximum current consumption; frequency of 433MHz or 868MHz; -120dBm sensitivity; di-pole antenna; one PGM form C relay output rated at 5A/28Vdc, N.C./N.O.(+1 optional); anti-tamper switch.

Special Accessory Modules



APR3-ADM2: InTouch Voice-Assisted Arm/Disarm Module

- Arm, disarm, control PGMs and verify system status via telephone
- Available in one of 8 languages (English, Czech, French, Greek, Italian, Mandarin, Portuguese, Spanish, and Turkish)
- 1 PGM output

Specifications: 105mA maximum current consumption; 50mA PGM transistor output.



APR3-PRT1: Printer Module

- Send reports of zones or system events to a printer and/or PC for on-screen viewing
- Parallel and serial port connectors
- Automatically print events from selected event groups and/or zones as they occur
- 1 PGM output
- Available in English (Use WinLoad to change language to French, Spanish or Portuguese)

Specifications: 40mA maximum current consumption; one 25-pin parallel port; one 9-pin serial port; anti-tamper switch; one 50mA PGM transistor output; 2400, 9600, 19.2k, or 57.6k baud rate.



APR3-PGM1: 1-PGM Expansion Module

APR3-PGM4: 4-PGM Expansion Module

- APR3-PGM1: 1 PGM output
- APR3-PGM4: 4 PGM outputs

Specifications: 28mA maximum current consumption (APR3-PGM1) or 150mA maximum current consumption (APR3-PGM4: with all 4 PGMs active); one (APR3-PGM1) or four (APR3-PGM4) PGM form C relay rated at 5A/28Vdc, N.C./N.O.

Note: For the latest information on product approvals, such as UL and CE, please visit our Web site at www.paradox.ca.

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