



Comparison Chart

Feature Description	DigiplexNE DGP-NE96 Paradox	Power 864 PC5020 DSC	MAXSYS PC4020 DSC	Vista 128B Ademco	Gemini P9600 Napco
System Communication	GuardWall Technology	Combus 4-wire bus	Combus 4-wire bus	Combus 4-wire bus	Combus 4-wire bus
<ul style="list-style-type: none"> Sabotage-proof protection without using resistors Encrypted protocol with constant 2-way communication 	Yes Yes	- -	- -	- -	- -
Zones	96 (Z-Tech)	64	128	128	96
<ul style="list-style-type: none"> On-board inputs Addressable Hardwire Wireless Remote Controls Keyswitches 	8 up to 96 up to 96 up to 96 255 32	8 up to 32 up to 64 up to 32 uses a zone uses a zone	16 up to 112 up to 128 up to 64 uses a zone uses a zone	9 up to 119 up to 128 up to 128 uses a zone zone 7	8 - up to 128 up to 64 uses a zone uses a zone
Partitions	8	8	8	8	8
User Codes	999	38	1,500	150	96
Event Buffer	2048	256	3,000	512	800
Power Supply	1.7A Switching	1A Linear	1A Linear	1.7A Linear	1A Linear
Programmable Outputs	3 to 250	4 to 14	2 to 210	up to 96	3 to 96
Access Control	Yes	-	Yes	Yes	-
<ul style="list-style-type: none"> Doors Access Levels Schedules Unlock door with user code Arm/disarm with access card Automatic unlocking schedule Card activates unlocking schedule Extended unlock timer Keypad with built-in access control connections 	32 16 32 Yes Yes Yes Yes Yes Yes	- - - - - - - - -	32 63 50 - Yes Yes - - -	8 - - - - - - - -	- - - - - - - - -
Remote PIR Sensitivity Adjustment	Yes	-	-	-	-
Printer Module	parallel and serial	serial only	serial only	serial only	serial only
<ul style="list-style-type: none"> Programmable one-touch report generation 	Yes	-	-	-	-
Arm/Disarm Via Telephone	Yes	Yes	Yes	Yes	Yes
Hand-held Memory Key: Upload/download without peripheral device in under 5 sec.	Yes	-	-	-	-
End-User Software	NEware designed specifically for the end user	Yes only a cut-down version of the installer software	Yes only a cut-down version of the installer software	-	-
Installer Upload/Download Software	WinLoad (networked)	Yes (not networked)	Yes (not networked)	Yes (not networked)	Yes (not networked)

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On-Site Connection (Serial Port): No interruption of control panel operation or central station communication	Yes	-	-	-	-
On-Site Upload/Download Speed	38.4k baud	1.2k baud	1.2k baud	-	19.2k baud
Keypads	32 and more	12	16	32	15
• <i>Chime zone on schedule</i>	Yes	-	-	open only	open only
• <i>Chime zone on open or open/close</i>	Yes	open/close only	open/close only	-	-
• <i>Entry/exit delay per partition</i>	Yes	Yes	Yes	-	Yes
• <i>Display entry/exit delay</i>	Yes	Exit delay only	Exit delay only	-	-
• <i>Quick on-board connector for service keypad</i>	Yes	-	-	-	-
Common Lobby	Yes	-	-	Yes	-
User Arm/Disarm Report Scheduling	Yes	-	Yes	Yes	-
Intellizone	Yes	-	Cross-zoning	Cross-zoning	-
Suggested Dealer Price*	\$	\$	\$^c	\$\$\$	\$\$

Based on published information available 07/27/01. All product features subject to change. DSC, Power 864 and MAXSYS are registered trademarks of Digital Security Controls. Ademco is a registered trademark of Pittway Corporation.

Suggested dealer price based on available prices provided for evaluation purposes on a control panel with an LCD keypad. Prices are subject to change.

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What is GuardWall Technology? [\(back to comparison chart\)](#)

A security system's integrity relies not only on the performance of its modules (i.e. keypads, motion detectors, accessories), but on their ability to communicate information to the control panel through the system's wiring. DigiplexNE is not a bus system. The difference comes from the way DigiplexNE and its connected modules communicate.

GuardWall technology uses an encrypted communication protocol to communicate status data between the control panel and all its modules simultaneously and at all times. Even when there are no status changes to report, supervision data is continuously transmitted between DigiplexNE and its modules. This means that any attempt to tamper with or disable any module or the system's wiring is immediately recognized and can cause an alarm to be reported whether the system is armed or not.

A conventional system does not communicate when there are no status changes. It communicates only when something happens and uses a simple on/off dry-contact relay method of communication. As long as access to the wiring is possible, an intruder can sabotage the system wiring by shorting the wires or adding a resistor to fool a conventional system into thinking everything is normal when it's actually paralyzed.

GuardWall technology is a high-security communication protocol that "protects your security system".

Benefits of GuardWall Technology?

High Security

Full supervision and sabotage-proof protection without using additional wiring, additional modules or EOL resistors. Ensures a much higher level of system integrity because unlike a conventional system, system wiring cannot be sabotaged by shorting the wires or adding a resistor.

Expandability

Up to 127 modules can be connected anywhere and in any combination on one 4-wire communication network up to 3000ft (900m) from the control panel.

Easy Programming

Remotely program all network modules, including an addressable motion detector's sensitivity, through any keypad or the WinLoad Upload/Download Software.

Simple Installation

No home run wiring, EOL resistors, or additional modules are required. Find the GuardWall wires anywhere in your installation and connect the modules directly to the communication network in a star or daisy chain configuration. Zone assignment is completely independent from where modules are connected. Zone numbers can be reassigned via simple programming without affecting the wiring.

Advanced Zone Technology (Z-Tech) ([back to comparison chart](#))

DigiplexNE's Z-Tech (Advanced Zone Assignment Technology) provides installers with the following benefits:

DigiplexNE's keyswitches and remote controls do not need to be assigned to a zone.

Since they do not use up a zone, DigiplexNE's 32 keyswitches and 255 remote controls are offered in addition to its 96 security zones. In other alarm systems if you wanted to use 5 keyswitches and 20 remote controls you would reduce the capacity of your security system by 25 zones, which could have been used for detection devices.

Re-assign zones as required without affecting the wiring

Since its zone assignment is not dependent on where a detection device is connected, the installation process is made much easier. The system's detection devices are installed at any point and then the desired zone number is assigned to each detection device. Zone numbers can then be re-assigned as required without affecting the wiring. In other alarm systems if a motion detector is connected to input 5, it is automatically assigned to zone 5.

Unused inputs are not automatically assigned to a zone.

If an 8-zone hardwire expansion module is added to the system and only 5 of its inputs are being used, DigiplexNE will not force the 3 unused inputs to be assigned to a zone. In other alarm systems as soon as a module is added to the system it automatically assigns all its inputs to specific zones. With DigiplexNE only the detection devices you wish to be assigned will be assigned.

Addressable Zones ([back to comparison chart](#))

DigiplexNE supports various addressable detection devices that can be connected directly to the 4-wire communication network (maximum 96). These detection devices will provide precise detection and sabotage-proof protection without requiring hardwire inputs, resistors, or home run wiring. What's more, the addressable motion detector's sensitivity can be remotely adjusted via keypad or the WinLoad software. The line of addressable detection devices include:

- Addressable dual-element 100% digital motion detector (DGP2-50)
- Addressable quad-element 100% digital motion detector (DGP2-60)
- Addressable 100% digital motion detector with pet immunity (DGP2-70)
- Addressable door contact (DGP2-ZC1)

Hardwire Zones ([back to comparison chart](#))

The DigiplexNE control panel includes 8 on-board hardwire inputs that can be doubled to 16 zones with the ATZ Zone Doubling feature. DigiplexNE can be expanded to the desired number of hardwire zones (maximum 96) using any of the following modules:

- 1-zone hardwire expansion module (DGP2-ZX1)
- 4-zone plug-in module (DGP2-ZX4): connects directly to the main board, one maximum per system
- 4-zone hardwire expansion module (APR3-ZX4)
- 8-zone hardwire expansion module (APR3-ZX8)
- Each keypad and access control module also includes one on-board hardwire input

Wireless Zones [\(back to comparison chart\)](#)

DigiplexNE can be expanded to the desired number of wireless zones (maximum 96) by connecting one or more Omnia 433MHz Wireless Receiver Modules (OMN-RCV3) to DigiplexNE's 4-wire communication network. Each Omnia 433MHz Wireless Receiver Module can support 16 wireless zones and 16 remote controls using the following transmitters:

- Omnia wireless motion detector (OMN-PMD1)
- Omnia wireless door contact (OMN-DCT1)
- Omnia 4-button remote control (OMN-RCT1)

Keyswitches ([back to comparison chart](#))

The DigiplexNE control panel can support up to 32 keyswitches in addition to its 96 zones. A keyswitch allows a user to arm or disarm a system by pressing a key or by toggling a keyswitch. The keyswitches can also be used as virtual inputs to activate or deactivate a PGM independently of the security system operation. Select from three keyswitch definitions, six arming options and assign the keyswitch to one partition.

Partitioning [\(back to comparison chart\)](#)

The DigiplexNE system can be divided into 8 distinct areas (partitions). DigiplexNE provides the flexibility to set up the partitions to function virtually independent of or in conjunction with other partitions. Most of the system's features and options can be assigned to specific partitions for true system partitioning:

Zone Partition Assignment

Each zone is assigned to one partition to form common areas (common lobby). Partitions can then be programmed to arm together with other partitions.

Module Partition Assignment

The following modules can be assigned to one or more partitions.

- LCD Keypads (DGP2-641 and DGP2-641AC)
The keypads will only display the status of the partitions to which it is assigned. If a user's Area Access feature is disabled, the user will only be able to arm/disarm areas that are assigned to both the user and the keypad.
- Access Control Modules (DGP2-ACM1 and DGP2-ACM1P)
Any actions, such as arming and disarming, performed with an access control card can only be done in partitions assigned to the Access Control Modules.
- Printer Module (APR3-PRT1)
Only events that occurred in partitions assigned to the Printer Module can be printed.
- Voice-Assisted Arm/Disarm Module (APR3-ADM2)
Users can use a telephone to access only the partitions that have been assigned to the APR3-ADM2 module.

User Partition Assignment

- Each user can be assigned to one or more partitions.
- The users can then be programmed to access their assigned partitions at any keypad or to limit their access to the partitions assigned to the keypad.
- Users can only perform actions, such as arming and disarming, in partitions that they have access to.

Dialer Partition Assignment

Each partition has its own independent account number and each partition can be programmed with a different dialing sequence for arming/disarming report codes, alarm/restore report codes and tamper/restore report codes.

Partition Assignment for System Features

Most of the system's features, options and timers can be enabled or disabled per partition:

- Timed and No Movement Auto-Arming Options and Timers
- Arming/Disarming Schedules
- Lockout Timers
- Exit and Entry Delay Timers
- Recent Closing Delay
- Intellizone Delay
- Bell Cut-Off Timer
- Recycle Alarm Timers and Counters
- Police Code Timer
- Auto Zone Shutdown
- Maximum number of zones that can be bypassed
- Panic Alarm Options
- Bell Squawk and Ring Back Options
- One-Touch Options

Users ([back to comparison chart](#))

DigiplexNE supports up to 999 users including one System Master Code. The System Master Code has access to all partitions, all user options and can program other users into the system. Each of the 999 users can be programmed with 7 user code options and 10 access control options and can be assigned to one or more partitions.

- If the Master feature is enabled, the user can program other users into the system.
- If the Area Access feature is disabled, the user can only access partitions assigned to both the user and the keypad. If it is enabled, the user can access all partitions assigned to the user at any keypad.
- The end-user may find programming several users into a system can be complicated and that's why we developed NEware - the first true system owner software.

1.7A Switching Power Supply [\(back to comparison chart\)](#)

DigiplexNE's switching power supply provides 80% efficiency compared to linear power supplies that only maintain 65% efficiency and require a heat sink. Due to its high efficiency level, it produces minimal heat loss and is more reliable.

Access Control ([back to comparison chart](#))

With DigiplexNE you get a 96-zone sabotage-proof high-security system (DGP-NE96) with access control features built right in at security system pricing. This is a great advantage because if you ever decide or need to add access control, you can do so easily without having to purchase an upgrade. Installers do not need to learn a new software or programming method since the access control features and settings can be programmed using the same methods they are already familiar with.

What is Access Control?

Access control is the management, control and monitoring of people through secured areas. Unlike traditional keys and locks access control provides you with the ability to define the days and times specific people are allowed access. It's like having your own door man for every entrance except they don't take breaks, don't require a salary, don't discriminate and don't make mistakes. Other access control features also allow you to record, view and print who accessed which area and at what time.

Why Would I Use Access Control

With DigiplexNE it is an easy way for installers to get into a new niche market (integrated systems) and develop business by expanding what they can offer. Other great reasons to use access control:

- Control and limit access to areas that need to be secured.
- Know who entered a room and when.
- Eliminate errors and theft.
- Easy removal, modification or addition of an individual card without affecting others (no keys).
- Seamless integration with security system.
- When the security system is disarmed, access control provides added security by continuing to restrict access by keeping the doors locked.
- Simple and cost-effective installation.

How Does Access Control Function and What Do I Need?

Doors to areas you wish to control are locked and controlled by a card reader and lock. Each person that is authorized to enter through an access control door is given an access control card. The card is programmed with the doors they can access as well as the days and times their allowed access. There are various ways to enter and exit through the Access Control Doors. The user can present their access control card to the reader or they can enter their security system User Access Code on the keypad and press the **[acc]** button on the keypad. DigiplexNE will verify if they have access to the door at that time of day and if they do, DigiplexNE will unlock the door for a specified period of time.

Each access control door requires one:

- **Access Control LCD Keypad** (DGP2-641AC) or an **Access Control Module** (DGP2-ACM1/DGP-ACM1P) to communicate the information between the access control devices (reader, REX, door contact and locking device) and the control panel through the communication network
- PosiProx reader (CR-R880-A)
- Request for Exit Device such as a Paradoor (460) vertical-view motion detector
- Door contact
- Locking device

Hand-Held Memory Key (PMC-3) ([back to comparison chart](#))

Upload the programmed contents of one DigiplexNE control panel into the Memory Key and then download the contents of the Memory Key into as many other DigiplexNE control panels as needed.

- Customize control panel templates
- Download or upload panel programming in less than 5 seconds
- No need for a telephone line, PC or any other peripheral device
- Compatible with Spectra, Digiplex, DigiplexNE, LCD Keypad DGP2-641 and Access Control LCD Keypad DGP2-641AC

NEware System Owner Software [\(back to comparison chart\)](#)

Paradox understands that programming several users and managing their access control rights can be complicated. That's why we developed NEware - the first true system owner software. Now end users can easily add employees, set schedules and much more - all from the convenience of their computer. NEware is available in three editions. Here are some of NEware's great features:

- Provides end users with full control of their DigiplexNE system
- Intuitive and user-friendly interface
- Easily set user codes and options
- Live system monitoring
- Search events and print custom reports
- Connects directly to DigiplexNE's serial port (25ft/8m with 306 adapter or 1000ft/300m with DGP-CONV1 converter)
- Communicates at 19.2k or 38.4k baud
- Continuous live connection without compromising security operation or central station communication

NEware Editions

Demo (DNEWARE-DM)

The Demo edition contains all NEware features, but only 5 users can be programmed into the system. This edition can be downloaded for free from our Web site.

Security (NEW-SEC)

The Security edition contains all NEware features except:

- Setting access levels
- Storing and assigning access cards
- Accessing live events
- Labelling doors and access levels
- Programming user access control options

Security and Access Control (NEW-ACC)

This is the complete edition of NEware. All NEware features are available.

NEware System Requirements

- Microsoft ® Windows ® 95/98/2000/ME operating system or Windows ® NT service pack 5 or higher
- 32MB RAM (64MB recommended)
- 20MB free disk space (35MB recommended)
- Pentium 200 MHz or higher

WinLoad Upload/Download Software [\(back to comparison chart\)](#)

WinLoad simplifies and speeds up the task of programming the DigiplexNE control panel and its modules. Here are some of WinLoad's great features:

- User-friendly interface
- Remote and on-site uploading and downloading at speeds of up to 38.4k baud
- Live system monitoring
- Download small service pack files from our Web site to quickly update the language of the WinLoad software
- Print reports of the control panel's zone and user programming
- Network compatible
- Multiple users, groups and databases
- Windows® 95/98/2000/NT/ME compatible
- Event display and report printing
- Comprehensive database management tools
- Support for 9 languages

WinLoad System Requirements

- Microsoft ® Windows ® 95/98/2000/ME operating system or Windows ® NT service pack 5 or higher
- 16MB RAM (32MB recommended)
- 50MB free disk space (200MB recommended)
- Pentium 90 MHz or higher (200MHz recommended)

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