



# XCEL 4G

“Still The Installer’s Choice for security and value”

D8 XCEL 4G

D16 XCEL 4G



Wide choice of keypads



Wide range of optional  
Ness Radio Accessories



Onboard Access Control



Optional operation by  
smartphone\*



Scheduled Arming/Disarming, AUX  
outputs, User Code enable



8 or 16  
Hardwired or  
Wireless zones



Various  
Keypad  
Options



4G Cellular



Operation by  
Smartphone /  
Internet



Operation by  
Telephone



Access  
Control  
onboard



Powerful  
Wireless  
Options



Auto-Time  
Automation



8 x AUX  
Outputs



Easy  
Programming  
via Keypad



Fast  
Programming  
via PC



Free  
NessComms  
Installer Software



Convenient  
Programming  
via SMS



Back To Base  
IP Monitoring  
or SMS alerts



Adjustable  
Vibration Inputs  
on all Zones



C-BUS  
Compatible  
using Ness  
MiniCentral



Area  
Partitioning



Dual Voltage  
17VAC &  
20VDC

## Control Panel Features

### NEW IN XCEL 4G

- 4G Cellular Communicator onboard
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS self-monitoring or Central Station
- Central Station monitoring in Contact ID and ARMOR IP formats
- Remote operation and programming via the free NessXCEL app
- The panel is not network locked. Activate the supplied Ness SIM or BYO SIM
- New PCB layout, AUX5~8 header added

### D8XCEL4G / D16XCEL4G FEATURES

- 8 or 16 alarm zones.
- Supports up to 3 keypads (Navigator, Saturn or LCD)
- 56 user codes can be programmed to operate by keypad PIN, radio key or access card.
- Optional Ness Radio Interface for fully integrated wireless security.
- 3 Door Access Controller onboard with support for Weigand prox or fingerprint readers.
- Programmable Two Area partitioning can split the panel into two independent areas plus a common area.
- Real Time Clock with AutoTime features - auto arm/disarm, auto aux outputs, time based user control.
- Home Mode allows partial arming, (eg, perimeter security overnight).
- Day Mode feature for daytime security of fire doors, coolrooms etc.
- Temporary Day Zones allows easy enabling/disabling of Day Mode.
- Keypad Panic & Duress feature.
- Fire Alarm feature with different siren tones.
- Highly flexible zone to output mapping.
- Onboard Vibration Sensor Analyser with programmable sensitivity. Use with Nessensor™ vibration sensors.
- Multiple programmable EOL resistor values from 0k to 22k (2k2 resistors supplied).
- Siren chirp and strobe flash on arming with radio key.
- Quiet chirps option on arm/disarm by radio key.
- True Dynamic Battery Test actively tests the battery under load every hour and every time a keypad code is entered.
- 8 programmable auxiliary outputs.
- Enhanced serial data input/output via RS232.
- Automatic reset fuses.
- 30 event memory can be reviewed by LCD keypad or 80 event memory when using the Ness Navigator keypad or NessComms software.
- Standard defaults to suit most applications.
- Easy programming by keypad, SMS or NessComms™ software.
- All programming data is permanently stored in a non-volatile memory.
- All inputs and outputs are heavily protected against lightning and high voltage supply transients.
- Dual voltage power input, 17VAC or 20VDC.

### INTERNET READY

- Supports mobile control using Ness iComms/aComms iPhone/iPad and Android apps and optional ethernet adapter.

### C-BUS SUPPORT

- Ness MiniCentral option provides support for up to 255 individual C-Bus lights or outputs. Includes full dimming, On/Off and toggle commands with true 2 way communications on the C-Bus network.

### COMMUNICATOR

- 4G Communicator onboard
- Direct-connect upload/download using NessComms™ software.
- View system status and arm/disarm using NessComms™.
- Remote control of outputs via telephone with voice prompts.
- Operation via SMS messaging
- Programming via SMS
- Alarm reports via SMS self-monitoring or Central Station
- Central Station monitoring in Contact and ARMOR IP formats
- Remote operation and programming via the free NessXCEL app

## Keypad Choice



NESS SATURN KEYPAD - proving that alarm keypads can be beautiful as well as functional.

Saturn's elegant design has a distinctive look and feel of luxury with a glossy glass-look fascia and satin finish tactile buttons making it a pleasure to see and use.

The high contrast icon LCD display has gentle white back-lighting which switches to red to indicate alarm memory. The LCD brightness, key backlighting and beep volume are all user adjustable to suit individual preferences.

Saturn keypad is partially recessed to present an extremely low profile with an optional surface mount housing is available for installing on solid walls.

Available in White and Ocean Mist.



NESS NAVIGATOR TOUCH SCREEN KEYPAD provides the user and installer with unrivalled ease of use combined with attractive looks.

Navigator's self-explanatory on screen operation guides provide plain English displays and intuitive touch screen operation.

Navigator's many display screens make it easy to view all your zones with your own text descriptions, get help and prompts for arming, disarming, operating outputs, emergency alarms and much more.

Available in white with optional black and silver fascias.



NESS KPX KEYPAD features a high-contrast LCD display with blue backlighting.

KPX has backlit tactile rubber buttons and a key protection flap. Customise the keypad with the adjustable keypad beep volume and LCD brightness.

## Ness SIM Plans



Ness XCEL 4G panels are supplied with a Ness SIM card for your convenience. You can choose to activate the Ness SIM or BYO SIM on a network of your choice.

### NESS SIM BENEFITS:

- Easy online activation & simple billing
- Competitive Retail & Trade SIM plans
- No lock-in contracts - opt out anytime



To activate your Ness SIM  
**activate.ness.com.au**

## Home & Business Options

NESS D8x/D16x control panels offer the widest possible combination of standard features and options to provide users and installers with the most powerful and flexible security panels ever made by Ness.

HOME users will appreciate Ness Navigator, Saturn and KPX keypads where good looks and ease of use are just as important as the wide range of wireless and hardwired sensors, radio keys and home automation options. Home users might choose to monitor the system via the onboard voice dialler to their own mobile phone or use the central station option for 24 hour monitoring.

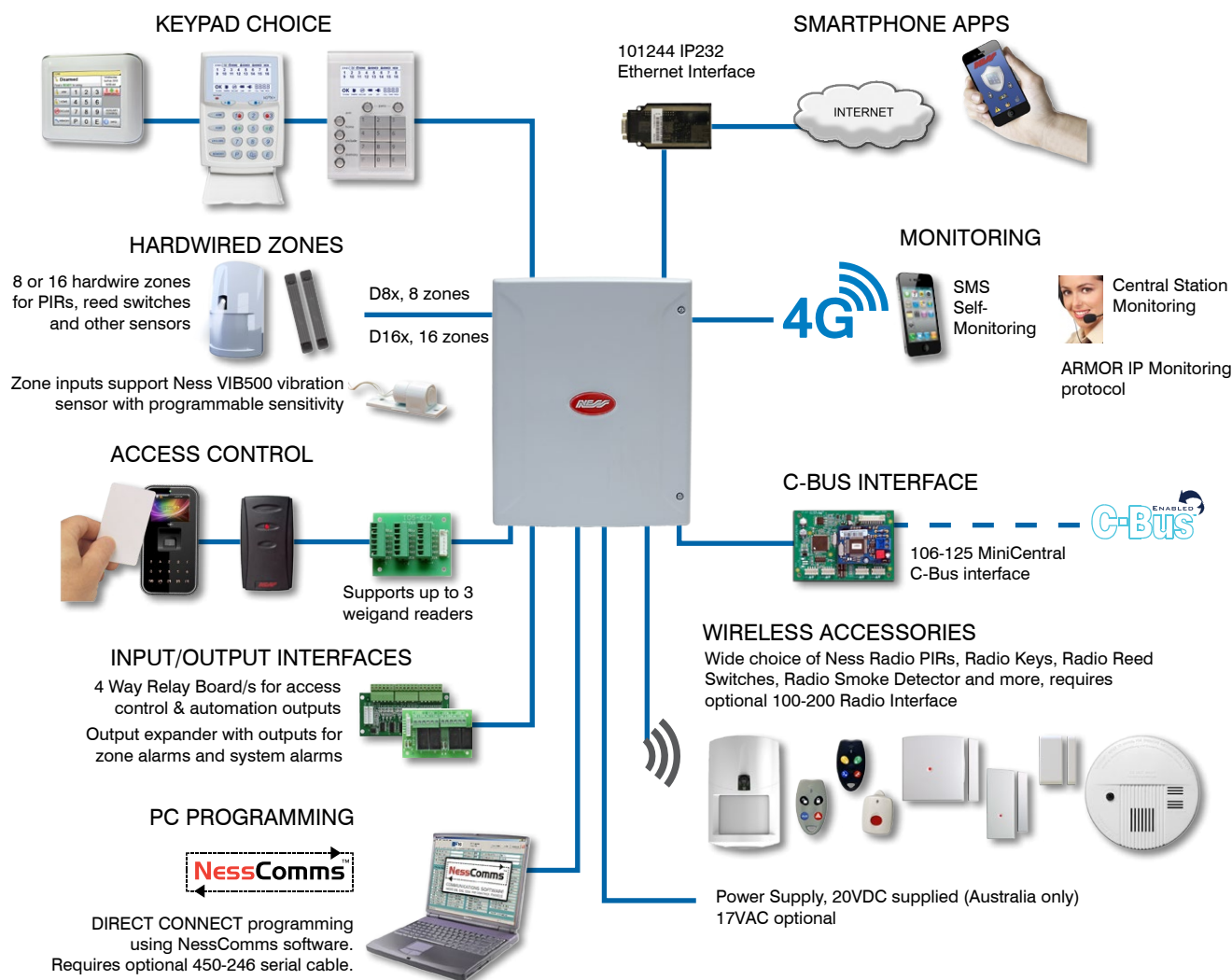
BUSINESS users have the choice of D8x 8 zone or D16x 16 zone panels when protection of multiple zones is required on a larger site. The onboard Auto-Time feature can take care of scheduled arming/disarming and even programmable time windows for staff access to the premises.

The onboard three door access controller can be programmed to grant entry and exit using prox access cards/fobs, operate electric door locks and even arm/disarm the system by access card.

Business users can choose to monitor the system using the onboard telephone dialler or via the internet monitoring option (Ness APX).

Ness D8x/D16x is the owner and installer's choice for home and business security!

## System Overview



This diagram is a system overview not a wiring guide.

## Control Panel Specifications

|                            |                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| PLASTIC HOUSING DIMENSIONS | 235w x 300h x 90d mm                                                                                                                            |
| POWER REQUIREMENT          | Dual Voltage, 17VAC or 20VDC                                                                                                                    |
| QUIESCENT CURRENT DRAW     | 80mA with 1 keypad                                                                                                                              |
| RECHARGEABLE BATTERY       | 12 volt 7.0 Amp/hour Sealed Lead Acid                                                                                                           |
| BATTERY CHARGING CURRENT   | 350mA maximum, current limited                                                                                                                  |
| DYNAMIC BATTERY TEST       | Backup battery is tested under load, hourly and on arming                                                                                       |
| FUSES                      | 2 Amp auto resetting / Siren output & Reset output<br>500mA auto resetting / 12 volt auxiliary outputs<br>200 mA auto resetting / strobe output |
| ZONE INPUTS                | 8 or 16 zone inputs. 2 x 24hr tamper inputs                                                                                                     |
| END OF LINE RESISTOR       | Choice of 12 programmable values including N/C. Default 2200 Ohms (2.2k)                                                                        |
| MAXIMUM KEYPADS            | Maximum 3x mixed keypads or 4x Navigator keypads per system                                                                                     |
| RECEIVER HEADER            | Multi-pin connector for the Ness Radio Interface                                                                                                |
| AUX HEADERS                | AUX outputs 1~4 and 5~8 for relay output board/s and/or connection for output expanders                                                         |
| SERIAL HEADER              | Serial data port for 1. Direct connect programming using NessComms™ software. 2. Two way serial data (V5.6+) 3. Ethernet interface              |
| READER HEADER              | Serial data port for data input/output and direct connect programming using NessComms™ software                                                 |
| SIREN OUTPUT               | Siren driver with timed output. Max 3 x 8 Ohm horn speakers                                                                                     |
| STROBE OUTPUT              | 12V DC timed output. Max. 2 x 1 Watt strobe lights                                                                                              |
| RESET OUTPUT               | 12V DC timed output. Max. 3 x 12V piezo screamers                                                                                               |
| EQUIPMENT POWER OUTPUT     | 13.8V DC output for powering detectors and other equipment. Maximum 500mA                                                                       |

## Keypad Specifications

|                    | NAVIGATOR KEYPAD                      | SATURN KEYPAD            | KPX KEYPAD          |
|--------------------|---------------------------------------|--------------------------|---------------------|
| DIMENSIONS         | 108w x 86h x 15d mm                   | 89w x 130h x 15recess mm | 90w x 135h x 27d mm |
| DISPLAY TYPE       | 3.5" Colour LCD                       | Backlit LCD              |                     |
| DISPLAY RESOLUTION | 320 x 240                             | Icon Display             |                     |
| USER INPUT         | Touch sensitive surface               | Tactile flat keys        | Tactile rubber keys |
| DATA               | 4 wire proprietary Ness data bus      |                          |                     |
| OPERATING VOLTAGE  | 13.8VDC supplied by the control panel |                          |                     |

## Ordering Information

106-450 D8XCEL4G Panel only inc SIM  
 106-456 D16XCEL4G Panel only inc SIM  
 K-9308 D8XCEL4G Panel with Navigator Keypad inc SIM  
 K-9323 D16XCEL Panel with Navigator Keypad inc SIM  
 K-9312 D8XCEL4G Navigator Panel & SIREN KIT inc SIM  
 K-9313 D16XCEL4G Navigator Panel & SIREN KIT inc SIM  
 K-9314 D8XCEL4G Navigator LUX KIT inc SIM  
 K-9220 D16XCEL4G Navigator LUX KIT inc SIM  
 K-9306 D8XCEL4G Panel with KPX+ White Keypad inc SIM  
 K-9321 D16XCEL4G Panel with KPX+ White Keypad inc SIM  
 K-9307 D8XCEL4G Panel with KPX+ Silver Keypad inc SIM  
 K-9322 D16XCEL4G Panel with KPX+ Silver Keypad inc SIM  
 K-9305 D8XCEL4G Panel with SATURN+ White KP inc SIM  
 K-9320 D16XCEL4G Panel with SATURN+ White KP inc SIM  
 K-9304 D8XCEL4G Panel with SATURN+ Ocean Mist KP inc SIM  
 K-9319 D16XCEL4G Panel with SATURN+ Ocean Mist KP inc SIM  
 K-9311 D8XCEL4G Panel & SIREN KIT with KPX+ White KP inc SIM  
 K-9324 D16XCEL4G Panel & SIREN KIT with KPX+ White KP inc SIM  
 K-9315 D8XCEL4G Panel & PIR KIT with KPX+ White KP inc SIM  
 K-9221 D16XCEL4G Panel & PIR KIT with KPX+ White KP inc SIM  
 K-9014 D8XCEL4G in 14" Metal housing no keypad  
 K-9211 D16XCEL4G in 14" Metal housing no keypad  
 K-9015 D8XCEL4G in 28" Metal housing no keypad inc SIM  
 K-9212 D16XCEL4G in 28" Metal housing no keypad inc SIM  
 110-970 D8XCEL4G Spare PCB with Ness SIM, not locked  
 110-971 D16XCEL4G Spare PCB with Ness SIM, not locked  
 K-9325 D8XCEL4G Spare PCB inc 4G antenna inc Ness SIM  
 K-9326 D16XCEL4G Spare PCB inc 4G antenna inc Ness SIM  
 K-9301 NESS D8XCEL4G Navigator Z-Wave Kit inc SIM  
 K-9302 NESS D16XCEL4G Navigator Z-Wave Kit inc SIM



106-450 D8XCEL 4G Panel only  
 106-456 D16XCEL 4G Panel only

## Optional Accessories

### CONTROL PANEL ACCESSORIES

106-100 Ness Navigator Touch Screen Keypad  
 106-310 Ness KPX+ LCD Keypad - White  
 106-328 Ness KPX+ LCD Keypad - Silver  
 106-323-WHT Ness Saturn+ Premium keypad - White  
 106-323-OMT Ness Saturn+ Premium Kp - Ocean Mist  
 106-011 Output Expander  
 106-013 4 Relay Board  
 106-012 Reader Interface  
 100-200 Radio Interface  
 101-244 IP232 Ethernet Interface  
 106-125 Ness MiniCentral C-Bus Interface

### KEYPAD ACCESSORIES

165-437 Backbox for Navigator kp - surface mounting  
 106-123 BLACK fascia only for Navigator keypad  
 106-132 SILVER fascia only for Navigator keypad

iComms & aComms require D8x/D16x V5.6 or later (<sup>2</sup> requires V7.8 or later to operate panel outputs). Internet connection requires optional 101-244 IP232 Ethernet adapter. iPhone/iPad/Smartphone not included.

<sup>1</sup> Emergency alarms must be enabled in the control panel to be available in iComms and aComms.

<sup>3</sup>NessComms requires serial cable, not included.

<sup>4</sup>iComms apps and aComms apps are third party products which are endorsed by Ness without tech support. All accessories and interfaces are sold separately.

All models include power supply and backup battery (Australia only)



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