NESS

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

UNLOCKED SIM INCLUDED

Onboard Access Control

Optional operation by smartphone*

AUTO TIME
Scheduled Arming/Disarming, AUX outputs, User Code enable

MADE IN AUSTRALIA
by **NESS**

3 YEARS PARTS WARRANTY

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8 16 8 or 16 Hardwired or Wireless zones	Various Keypad Options	**4G** 4G Cellular
Operation by Smartphone / Internet	**SMS** Operation by Telephone	Access Control onboard
Powerful Wireless Options	**AUTO TIME** Auto-Time Automation	**AUX** 8 x AUX Outputs

Easy Programming via Keypad

Fast Programming via PC

NessComms Free NessComms Installer Software

4G Convenient Programming via SMS

4G Back To Base IP Monitoring or SMS alerts

Adjustable Vibration Inputs on all Zones

C-Bus C-BUS Compatible using Ness MiniCentral

Area Partitioning

Dual Voltage 17VAC & 20VDC

NESS CORPORATION

Security and Automation Solutions

www.ness.com.au

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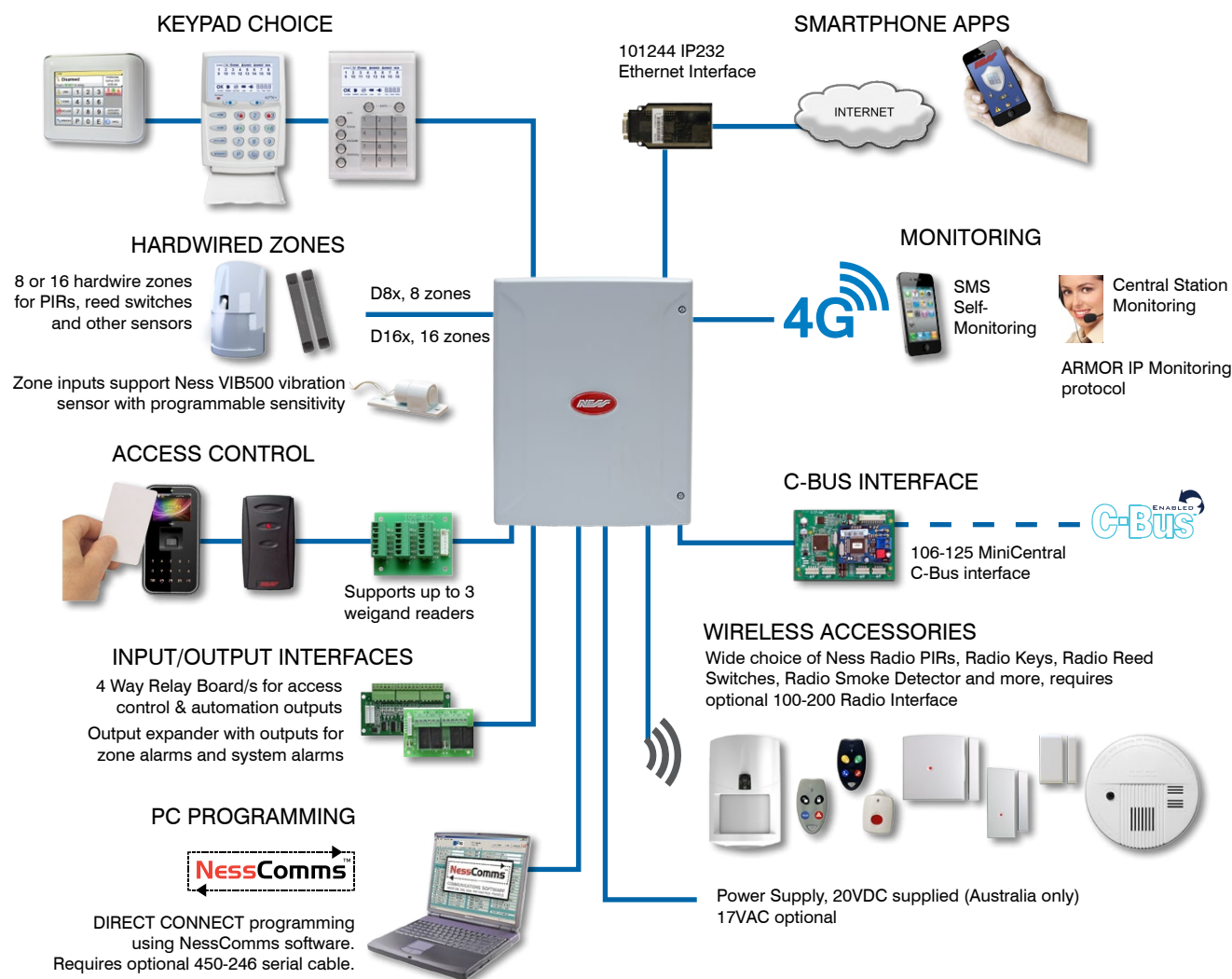
BUSINESS users have the choice of D8x 8 zone or D16x 16 zone panels when protection of multiple zones is required on a larger site. The onboard Auto-Time feature can take care of scheduled arming/disarming and even programmable time windows for staff access to the premises.

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

KEYPAD CHOICE

SMARTPHONE APPS

101244 IP232
Ethernet Interface

INTERNET

HARDWIRED ZONES

8 or 16 hardwire zones for PIRs, reed switches and other sensors

D8x, 8 zones
D16x, 16 zones

Zone inputs support Ness VIB500 vibration sensor with programmable sensitivity

MONITORING

4G

SMS Self-Monitoring

Central Station Monitoring

ARMOR IP Monitoring protocol

ACCESS CONTROL

Supports up to 3 weigand readers

C-BUS INTERFACE

106-125 MiniCentral C-Bus interface

INPUT/OUTPUT INTERFACES

4 Way Relay Board/s for access control & automation outputs

Output expander with outputs for zone alarms and system alarms

WIRELESS ACCESSORIES

Wide choice of Ness Radio PIRs, Radio Keys, Radio Reed Switches, Radio Smoke Detector and more, requires optional 100-200 Radio Interface

PC PROGRAMMING

NessComms

DIRECT CONNECT programming using NessComms software. Requires optional 450-246 serial cable.

Power Supply, 20VDC supplied (Australia only) 17VAC optional

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 500mA auto resetting / 12 volt auxiliary outputs 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 15receess 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

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

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 (² requires V7.8 or later to operate panel outputs). Internet connection requires optional 101-244 IP232 Ethernet adapter. iPhone/iPad/Smartphone not included.
¹ Emergency alarms must be enabled in the control panel to be available in iComms and aComms.
³NessComms requires serial cable, not included.
⁴iComms apps and aComms apps are third party products which are endorsed by Ness without tech support. All accessories and interfaces are sold separately.

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