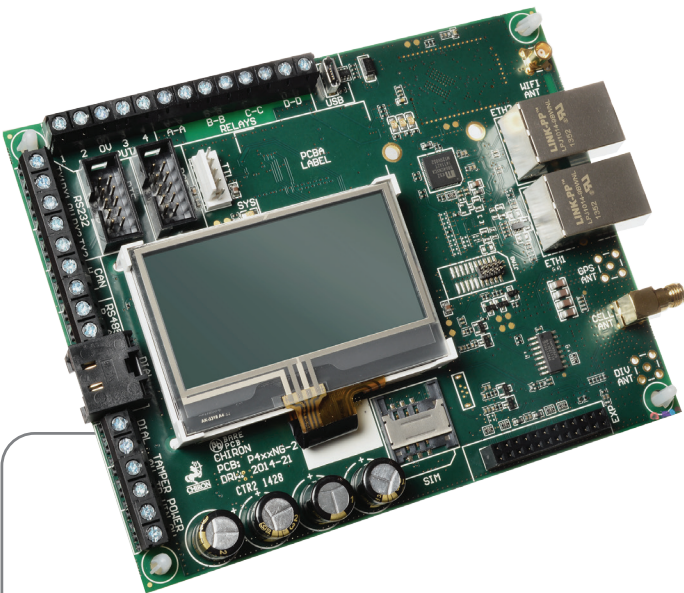# iris touch
Alarm over IP

4 SERIES NG

The new and improved Next Generation Series is designed to provide the same secure end-to-end alarm transmission expected from Chiron IRIS AoIP diallers, with the addition of new technology to set the NG diallers in a different realm of innovation.

IP Network

| Alarm panel | IRIS Touch - Diallers - Dual path back up via GPRS, PSTN or GSM | IRIS Secure Apps | Monitoring centre |

The new NG 4●● continues to be suitable for use in existing enclosures and connects to any alarm panel, offering a highly flexible choice from Grade-2 to Grade-4 signalling options. In addition, the Next Generation diallers now include the following leading edge features:

● Dual Ethernet connections allow you to include video feed from CCTV systems.

● Full VoIP and SIP services available as standard on all units; ideal for voice applications such as audio verification, lift Installations and social care.

● Industrial standard interface for HVAC and home automation; allowing the possibility of the installed alarm system being integrated with cutting edge building management and control systems.

● Providing the user with continuous, uninterrupted connection, there is no delay when connecting to Remote Service App, thereby vastly improving upload/download speeds and making the units remotely upgradeable.

● All units feature an improved and highly sensitive, stylish and modern, multilingual touch screen designed for easy deployment.

● Multiple connection interfaces are now included on all models, allowing flexibility and choice when connecting to any alarm panel.

● Notification by text message on 400 & 440 models.

● High speed Bus Interfaces allowing faster integration for upload/download, configuration from panel keypad and alarm transmissions.

● Expansion boards available offering pin inputs or pin inputs and PSTN dial out.

IRIS Touch 400
(Single Path 3G)

IRIS Touch 420
(Single Path IP)

IRIS Touch 440
(Dual Path IP & 3G)

IRIS Touch 440-4G
(Dual Path IP & 4G)

EN50131-1: 2006
EN50136-1: 2012
EN50136-2: 2013
(ATS-6 Grade 4)

EN54-21 CPR

| Dual path | EN 50131/6 Independently certified | Back up monitoring centre capable | Connects to all alarm panels | Alarm plus services | Remote upload/download |

IRIS Touch 4-series features	400	420	440	440-4G
Touch screen	O	O	O	O
Ethernet port	-	2	2	2
3G UMTS with auto 2G GPRS fallback	O	-	O	-
4G LTE with auto 3G or 2G fallback	-	-	-	O
Dialport capture	O	O	O	O
Relays	4	4	4	4
PIN inputs	4 standard + 12 additional with EXT-1 or EXT-2 extension board			
Serial RS485	O	O	O	O
Serial TTL	O	O	O	O
RS232 (Basic or Full)	1 Full or 2 Basic selectable			
CAN bus	O	O	O	O
SMS text messaging	O	-	O	O
Multi language programming menu	O	O	O	O
Build-in VoIP and SIP services	O	O	O	O

Power Supply

Supply voltage	9 - 28V DC			
Quiescent current (12V)	151 mA	151 mA	153 mA	153 mA

Relays

Relay outputs - max operating voltage	24V DC
Relay outputs - max operating current rating	100 mA DC

Alarm Transmission

Interface to Alarm Receiving Centre (ARC)	IRIS Secure Apps or IRIS Management Suite
Dialport capture interface	Two wire interface via RJ45 socket or terminal screw block
Pin inputs	Input voltage range 0V - 12V DC
	"Low" (Alarm state) threshold <1V
	"High" (Restore state) threshold >2V
	Internal pull-up 10K tot 3.3V supply
Alarm protocols	SIA (Levels 0 to 3)
	Contact ID
	Scancom Fast Format
	Telim
	Robofon
Tamper detection reporting to ARC	On board AUX tamper input - Dialport capture interface - PIN inputs - Serial inputs
Fault detection reporting to ARC	IP transmission path - 2G/3G/4G transmission path

Transmission Paths

	400	420	440	440-4G
Ethernet standard	-	UTP 10/100 Base T with auto-negotiation		
Connection	-	MagJack RJ45 connector for CAT5/6 cabling		
IP addressing	-	DHCP (Dynamic) or FIXED		
Connection fault detection	-	Loss of ethernet synchronisation		
2G/3G/4G	Dual band UMTS (3G) 900/2100 MHz Dual band GPRS (2G) 900/1800 MHz	-	Dual band UMTS (3G) 900/2100 MHz Dual band GPRS (2G) 900/1800 MHz	Penta band LTE (4G) 800/900/1800/2100/2600 MHz Dual band UMTS (3G) 900/2100 MHz Dual band GPRS (2G) 900/1800 MHz
Antenna connection	SMA socket	-	SMA socket	SMA socket
Connection fault detection	Network registration loss	-	Network registration loss	Network registration loss

Environmental

Operating temperature range	-10ºC to 55ºC
Operating humidity range	95% max. non-condensing

Weight & Dimensions

Physical dimensions	150mm x 110mm
PCB weight	300 grams
Fully packaged weight	500 grams

Zero-Wait

Continues and uninterrupted connection to ARC	Instantaneous Up/Download - Configuration - Diagnostics - Firmware Reflash

Certification

	400	420	440	440-4G
EN50131-1:2006 & EN50136-1:2012	Grade 4	Grade 4	Grade 4	Grade 4
EN50136-2:2013	Grade 4	Grade 4	Grade 4	Grade 4
EN54-21 CPR	√	√	√	√
VDS	√	√	√	√
SBSC	√	√	√	√
FG - FNO	√	√	√	√
F&P	√	√	√	√
FKL	√	√	√	√
ReQ - NCP	√	√	√	√
INCERT	√	√	√	√
AS/NZS 2201.5:2008	√	√	√	√