Description

The DCU IP door control unit is one of several network devices that make up the S3000 Access Control system taking full advantage of the existing IT network infrastructure and low cost structured cabling system (CAT5e or CAT6).
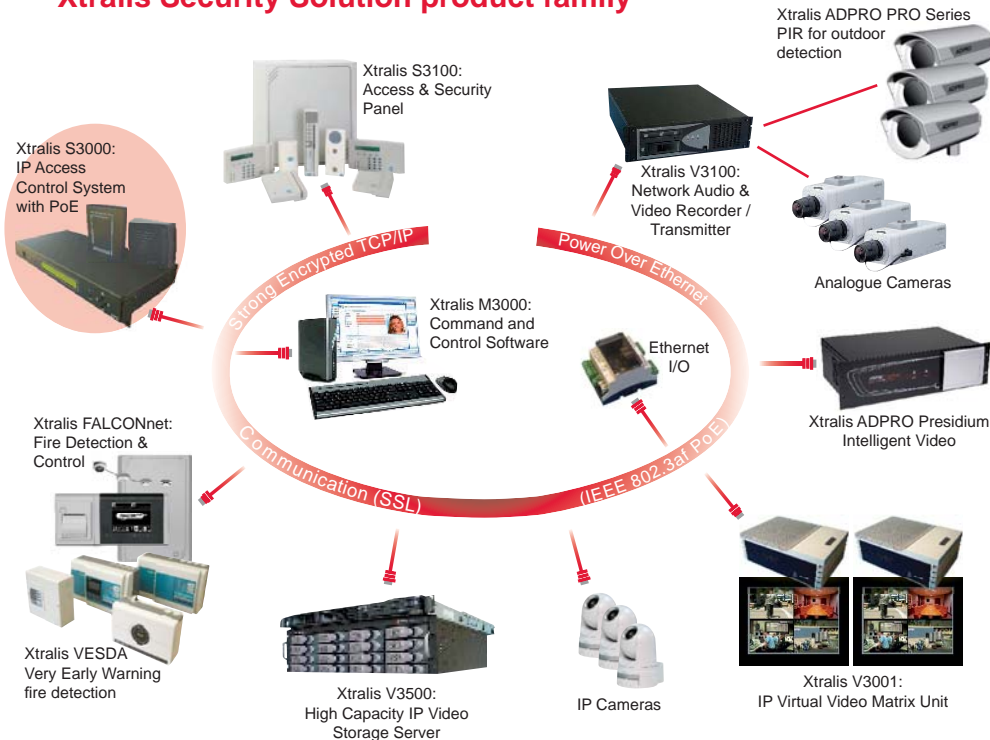
The DCU is a dual door controller for use with the RDR IP card reader. All other door functions are connected and powered utilising the DCU's PoE capability, including most door strikes and locking mechanisms. An optional relay is available for heavy duty locks and gate operators.

The DCU supports plug-and-use technology, Power-over-Ethernet, strong encrypted TCP/IP communication (SSL), automatic IP assignment (via LPU), and optional Li-polymer battery pack.

The S3000 access control system is fully interoperable with the Xtralis 3000 Series family of products, including the V3100 for video and audio recording and transmission, the V3500 for mass storage and archiving, and the V3001 for video wall applications.

Xtralis Security Solution product family

Xtralis S3100: Access & Security Panel

Xtralis S3000: IP Access Control System with PoE

Xtralis ADPRO PRO Series PIR for outdoor detection

Xtralis V3100: Network Audio & Video Recorder / Transmitter

Analogue Cameras

Strong Encrypted TCP/IP

Power Over Ethernet

Xtralis M3000: Command and Control Software

Ethernet I/O

Xtralis ADPRO Presidium Intelligent Video

Xtralis FALCONnet: Fire Detection & Control

Communication (SSL)

(IEEE 802.3af PoE)

Xtralis VESDA Very Early Warning fire detection

Xtralis V3500: High Capacity IP Video Storage Server

IP Cameras

Xtralis V3001: IP Virtual Video Matrix Unit

Key Benefits

- Full IP, with Power-over-Ethernet
- Full system redundancy
- Power/Control for 2 doors
- SSL data encryption
- Plug-and-use technology
- Spanning Tree Protocol
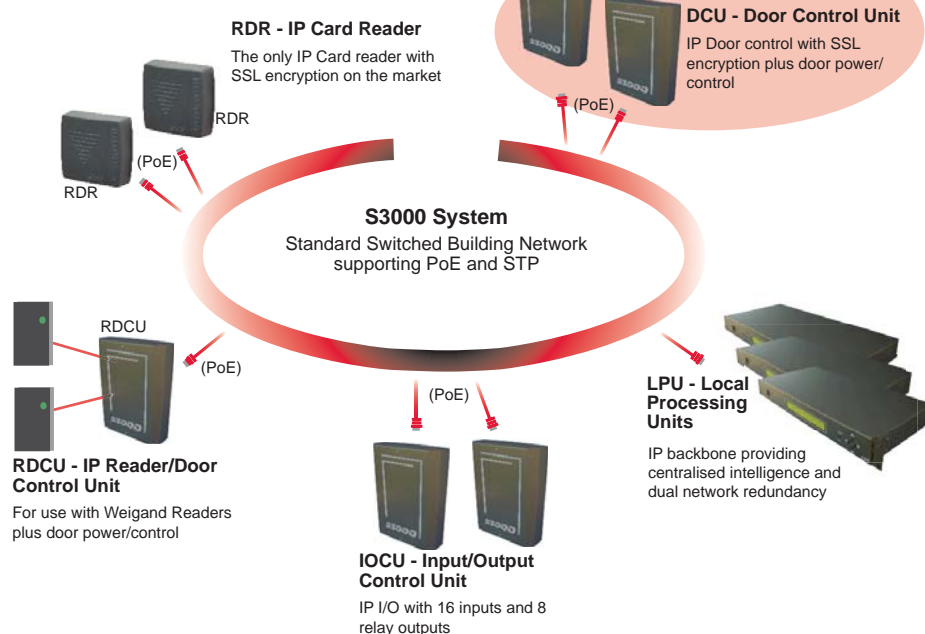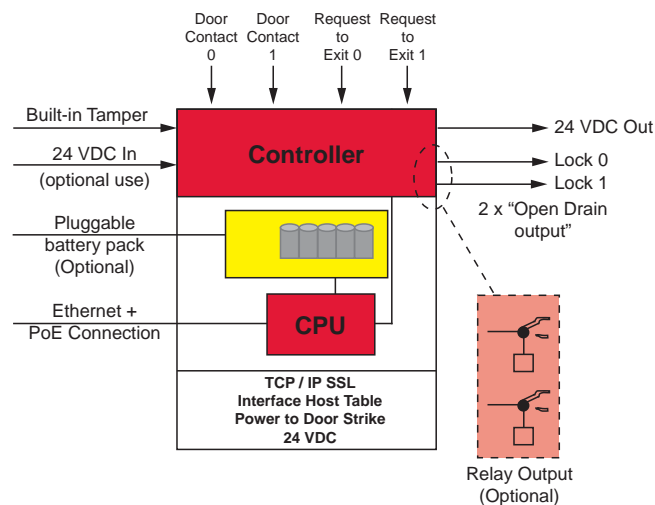- Internal fail safe control
- IT network standards

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Configuration

RDR - IP Card Reader
The only IP Card reader with SSL encryption on the market

RDR

(PoE)

RDR

DCU - Door Control Unit
IP Door control with SSL encryption plus door power/control

(PoE)

S3000 System
Standard Switched Building Network supporting PoE and STP

RDCU

(PoE)

RDCU - IP Reader/Door Control Unit
For use with Weigand Readers plus door power/control

(PoE)

IOCU - Input/Output Control Unit
IP I/O with 16 inputs and 8 relay outputs

LPU - Local Processing Units
IP backbone providing centralised intelligence and dual network redundancy

Block Diagram

Door Contact 0   Door Contact 1   Request to Exit 0   Request to Exit 1

Built-in Tamper

24 VDC In (optional use)

Controller

24 VDC Out

Lock 0
Lock 1

2 x "Open Drain output"

Pluggable battery pack (Optional)

Ethernet + PoE Connection

CPU

TCP / IP SSL Interface Host Table Power to Door Strike 24 VDC

Relay Output (Optional)

Specifications

Connection
10/100 BaseT (RJ45 CAT 5e or CAT 6) IEEE 802.3af PoE Compliant.

Indicators
Multicoloured LEDs (Lock 1 & 2, Door state, Battery state)

Input
Enclosure tamper, Supervised Door contact, Supervised Request to Exit Button.
Optional external power supply connection (24 VDC / 2 A)

Output
24 VDC max 100 mA (peripheral use), Door lock control:
2 x MOSFET monitored output 24 VDC (25 mA to1 A)
Internal Li-polymer battery pack connection

Protocol
Strong encrypted (SSL) TCP/IP, DHCP, ARP, ICMP, SSH, IPv4, IPv6 Ready

Operational modes
Intelligent access control door controller for 2 doors.
Database on Local Processing Unit(s).
Redundancy by multiple LPU's

Software
M3000 Windows-based security management software

Housing Dimensions
303 mm (12") H x 204 mm (8") W x 61 mm (2.4") D - Indoor use
Colour: RAL 7016
Weight: 2.5 kg (5.512 lbs) excluding battery pack: 0.300 kg (0.661 lbs)

Power supply
Powered over Ethernet (IEEE 802.3af PoE) 12 Watt.
Optional Li-polymer battery pack

Temperature – Humidity
Operational temperature: 32 – 104°F (0 -0 - 95% RH non-condensing

Product code
S3000 DCU IP door control unit (2 doors) – part number: 09003317
Optional Li-polymer battery pack 100-240 V / 24 VDC / 3 A adapter - part number: 09003800

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