Description

The RDCU IP reader/door control unit is one of several network devices that make up the S3000 Access Control system, taking full advantage of the existing vantage of the IT network infrastructure and low cost structured cabling system (CAT5e or CAT6).

The RDCU is a single door controller with two Weigand reader connections that allow for both read-in and read-out applications. All door functions are connected and powered utilising the RDCU's PoE capability, including most door strikes and locking mechanisms. An optional relay is available for heavy duty locks and gate operators.

The RDCU 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 ADPRO PRO Series PIR for outdoor detection

Xtralis S3100: Access & Security Panel

Xtralis S3000: IP Access Control System with PoE

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 1 door
- Supports Weigand readers
- Plug-and-use technology
- Spanning Tree Protocol
- Internal fail safe control
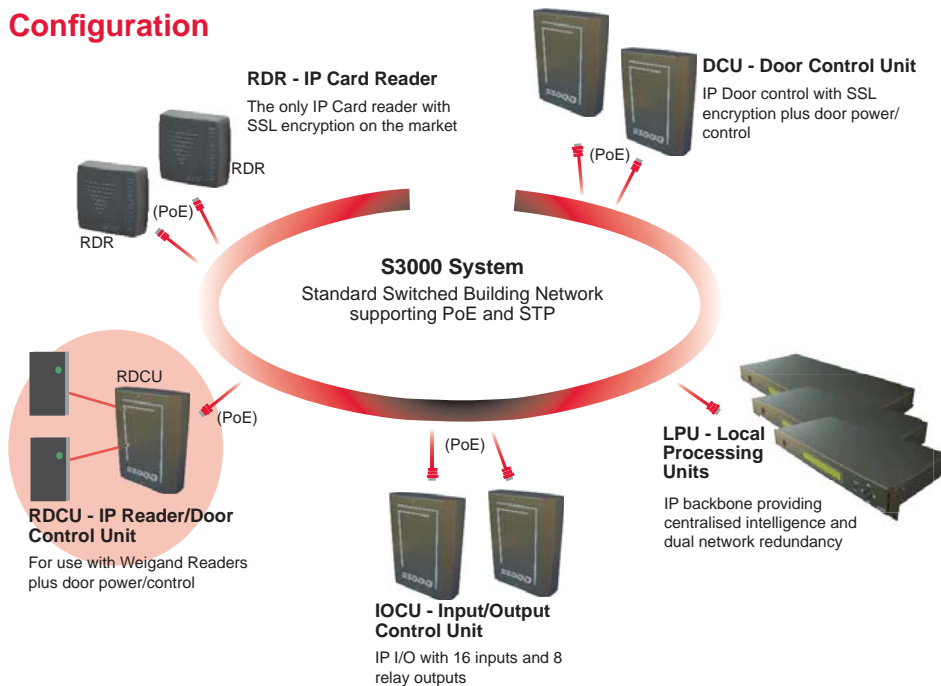- SSL data encryption
- IT network standards

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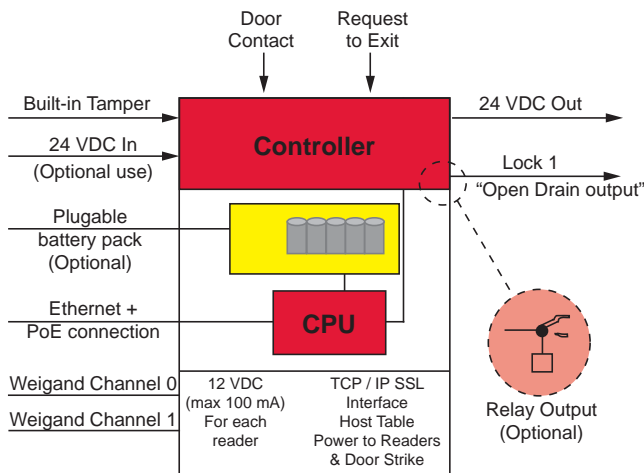SECURITY SOLUTIONS

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

Request to Exit

Built-in Tamper

24 VDC In (Optional use)

Controller

24 VDC Out

Lock 1 "Open Drain output"

Plugable battery pack (Optional)

Ethernet + PoE connection

CPU

Weigand Channel 0

Weigand Channel 1

12 VDC (max 100 mA) For each reader

TCP / IP SSL Interface Host Table Power to Readers & Door Strike

Relay Output (Optional)

Specifications

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

Indicators
Multicoloured LEDs (Lock, Door state, Battery state)

Input
Enclosure tamper, supervised door contact, supervised push button
Optional external power supply connection (24 VDC / 2 A) 2 reader channels (Weigand) each 12 VDC / 100 mA, Buzz, Red LED, Green LED

Output
24 VDC max 100 mA (peripheral use)
Door lock control: MOSFET monitored output 24 VDC (25 mA to 1 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 for 2 readers and 1 door controller
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: 2.500 kg (5.512 lbs) Excl 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 - 95% RH non-condensing

Product code
S3000 RDCU combined reader/door control for 2 readers/1 door – part number: 09003317 Optional Li-polymer battery pack for DCU, RDCU, IOCU, LPU - part number: 09003800

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