

AC2000 (RTC) Ethernet Controller

Features that make a difference:

- RTC software is required to support CEM IP based products including the emerald touch screen reader, S610e, S610f, S3040 portable reader range, eDCM 300 two-door Controller, eDCM 350 two-door Encrypted Controller, eDCM 380 two-door PoE+ Controller, eDCM 300 Input/Output Module and the EIOC (Ethernet Input/ Output Controller)
- A single RTC controls up to 256 master card readers/devices
- A single CDC server can use 256 RTC's to support up to 65,536 master card readers/ doors
- RTC has a complete offline database offering an extra layer of redundancy to the AC2000 system
- RTC distributes database changes to connected Ethernet readers and devices
- Ethernet (TCP/IP) connectivity to the AC2000 CDC server

The AC2000 RTC (Real Time Computer) is a software controller required for use with Ethernet based CEM readers and devices as part of the AC2000 SE (Standard Edition) and AC2000 AE (Airport Edition) access control systems.

At the heart of the AC2000 system is the Central Database Computer (CDC Server), which is based on a client-server system architecture design. The CDC server serves each of the connected client workstations and processes and stores all the alarms and transactions that occur on the system.

The RTC software provides Ethernet reader controller software which is used by CEM readers and devices to communicate with the CDC. It has its own subset of the CDC server database which it uses to communicate to the readers. The RTC is used with CEM Ethernet devices such as the emerald touch screen reader, S610e reader, S610f reader, S3040 portable reader, eDCM 300 / 350 / 380 Door Controller Module range, eDCM 300 Input/Output Module and the EIOC (Ethernet Input/Output Controller).

The RTC software can be installed on the CDC server, however when used in systems with over 256 master readers/devices, the RTC software is installed on separate PC hardware to handle system capacity.

CEM Ethernet readers and devices have their own IP address and communicate to the RTC via standard TCP/IP protocol over 10/100 Base-T.

System Resilience

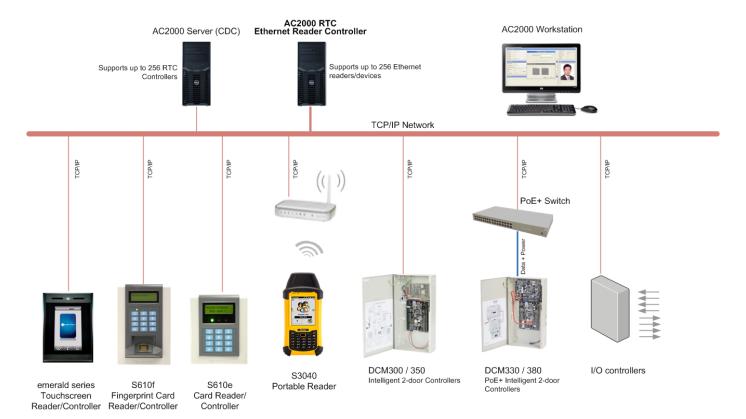
The RTC Ethernet software offers an added layer of system resilience as it is capable of operating independently from the central CDC server should communications between the two be temporarily lost.

All transaction information will be held on file in the RTC for onward transmission up to the CDC server once communications are re-established. Any system updates that have taken place at the CDC server during offline operation will also be transmitted to the RTC.

A large AC2000 system will utilise multiple RTC's, each connecting back to a single CDC Server. This provides a robust and reliable system, with balanced loading of access control processing and data communications.



AC2000 Ethernet System Toplogy



Recommended RTC PC Specification

Processor Type Intel® Xeon® E3-1240 Processor

Processor Speed......... 3.4GHz Internal Cache 8MB

Standard Memory 2 GB (2 x 1GB) Standard Memory Internal Hard Drive 1 x 500GB, 7200rpm, 3.5inch, SATA Hard Drive

Optical Drive Type 48 x DVD ROM SATA

Other Drives None Chassis Type..... Tower PSU..... Single

Ordering Information

| Product Code | Description |
|----------------------|---|
| SWENET128 | RTC – Ethernet Reader Controller SoftwareOnly (1-128 doors) |
| SWENET256 | RTC – Ethernet Reader Controller Software Only (128-256 doors) |
| SWENETUPG 128-256 | RTC – Ethernet Reader Upgrade LicenseController Upgrade License (128-256 doors) |
| SYS/101/300 | RTC – Ethernet Reader Controller (PC with SWENET256 software installed) |

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