RS2 Technologies has developed a network appliance that can be configured to meet a wide variety of applications. The NExT Step™ System is built around a high-performance computer capable of operating at extended temperatures. This computer, which includes an Intel® dual-core 1.75 GHz processor, is paired with Authentic Mercury™ hardware and our Access It!® access management software. The NExT Step™ System features 8 GB of DDR3L SDRAM, dual Ethernet ports (with LAN and EP controller connectivity), and utilizes Windows 10 IoT (64 Bit).

**NExT Step™ System**

The NExT Step™ System is a network appliance, all in one, “out of the box” access control solution. It is available in two- and four-reader configurations, expandable up to 64 readers. It includes a robust computer system running the Windows 10 IoT operating system, making it cost effective for small to medium applications. Installation and setup is made easy through preconfigured onboard software and automatic hardware discovery. The Windows 10 IoT operating system ensures high availability, excellent performance, and no maintenance.

The NExT Step™ System controller stores its own database as well as all schedule information, including unlock/relock times, access times and holiday information. This eliminates system downtime if the network appliance becomes unavailable or fails.

NExT Step™ uses a high-performance, industrial-grade small form factor computer with an Intel® E3827 Atom™ dual-core 1.75 GHz processor, which includes an integrated COM Express Type 6 module.

**Application Note**

The NExT Step™ System is the cornerstone of RS2’s newest generation of network appliance based access control solutions. Designed for small to medium sized installations it provides an initial two-reader capability, with the capacity to expand up to 64 doors.
RS2 Technologies  Access It!® NExT Step™ System

Technical Specifications

Network Appliance:
Windows 10 IoT 64 Bit
Intel® E3827 Atom™ dual-core 1.75 GHz processor
8 GB of DDR3L SDRAM
Fanless design
Auto power on support
Watchdog timer
10/100 Mbps LAN
4 USB ports (One 3.0 and three 2.0)
2 RS-232/422/485 ports
Ultra-low power consumption
System Controller (EP-1502)

Power:
10-50 VDC +/- 10%, 12 W maximum
Unregulated pass through (150 mA max.)

Serial Ports:
Primary 10/100 Ethernet
Port 1: RS-232/422/485
Port 2: RS-232/422/485

Inputs:
8 general purpose: 4 programmable, 4 reserved for door contact and REX
2 dedicated: tamper and power monitor

Outputs:
4 relays: Form C, 5 A, 30 VDC: 2 programmable, 2 reserved for door control

Reader Ports:
2 reader ports

Dimensions:
6.0" x 8.0" x 1.0"
(152 mm x 203 mm x 25 mm)

Temperature:
-0° to +49°C operational, -55° to +85°C storage

Humidity:
0%-85% RHNC

Standards:
UL 294, CE, RoHS
FCC Part 15 Class A
NIST Certified Encryption

Management Software

Browser based clients
5 clients
Built-in backup utility
Online or local software updates
Bulk card adding
Import/Export (optional)
Alarm and event monitoring
Tasks for I/O and door activities
Video badging and image capture (optional)
Bar code font (optional)
Built-in reporting capabilities
5,000 Cardholder capacity
Auto hardware discovery
64 readers
512 inputs/outputs
64 access levels
8 active card formats
6 access levels per cardholder
32 time zones /intervals
32 holidays

About RS2 Technologies, LLC

RS2 Technologies is a technology-driven developer and manufacturer of cutting edge access control hardware and Access It!®, the industry’s most powerful, user-friendly access control software. As one of only four worldwide Platinum Elite Partners of Mercury Security, we utilize Authentic Mercury™ hardware to provide users around the world with the most powerful open platform access control solution available today. RS2 is a Windows Embedded Partner and a Microsoft Certified Partner with ISV (Independent Software Vendor) software solutions competency status.

To find out how RS2 can give you an access control solution that helps you run your business, call 877.682.3532 or visit www.rs2tech.com.