

Network Manager

Application Note # 05

April 26, 2019

00DA0509-001, Rev D

Senstar Rugged Controller

System description

The Senstar Rugged Controller (SRC) is a robust, fan-less, embedded controller running the Windows 10 IoT Operating System. Along with the Network Manager Service, the SRC includes Senstar's Universal Configuration Module (UCM) and Alarm Integration Module (AIM) software. The SRC is primarily used to control and report the status of remote distributed networks of security devices. Typically, the SRC relays the status information to a security management system (SMS) in a central control facility. Optional input and display components enable local interfacing to, and control of, the SRC. It is also possible to configure the SRC for Remote Desktop control to enable remote control by an SMS or other connected PC.

Note

For complete details on the rBOX510-6COM embedded system, consult the User's Manual and data sheet available online at Axiomtek.com.

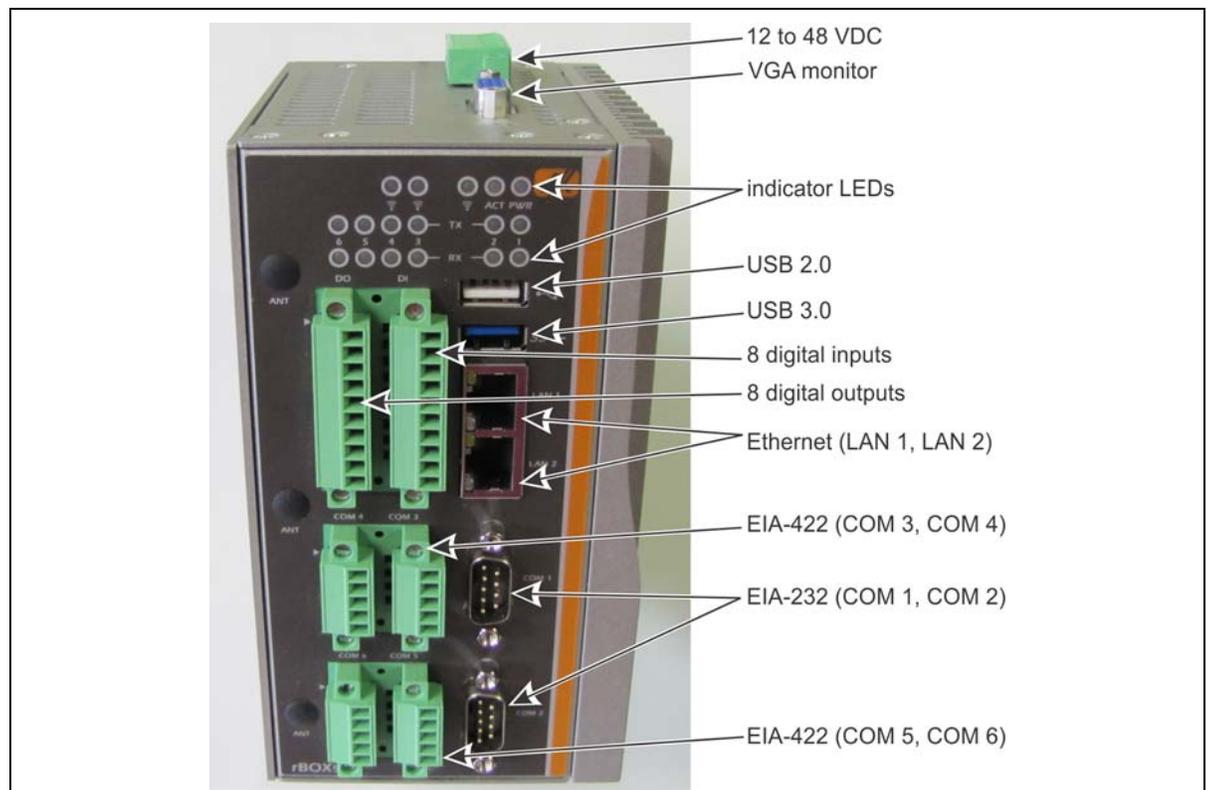


Figure 1: Senstar Rugged Controller

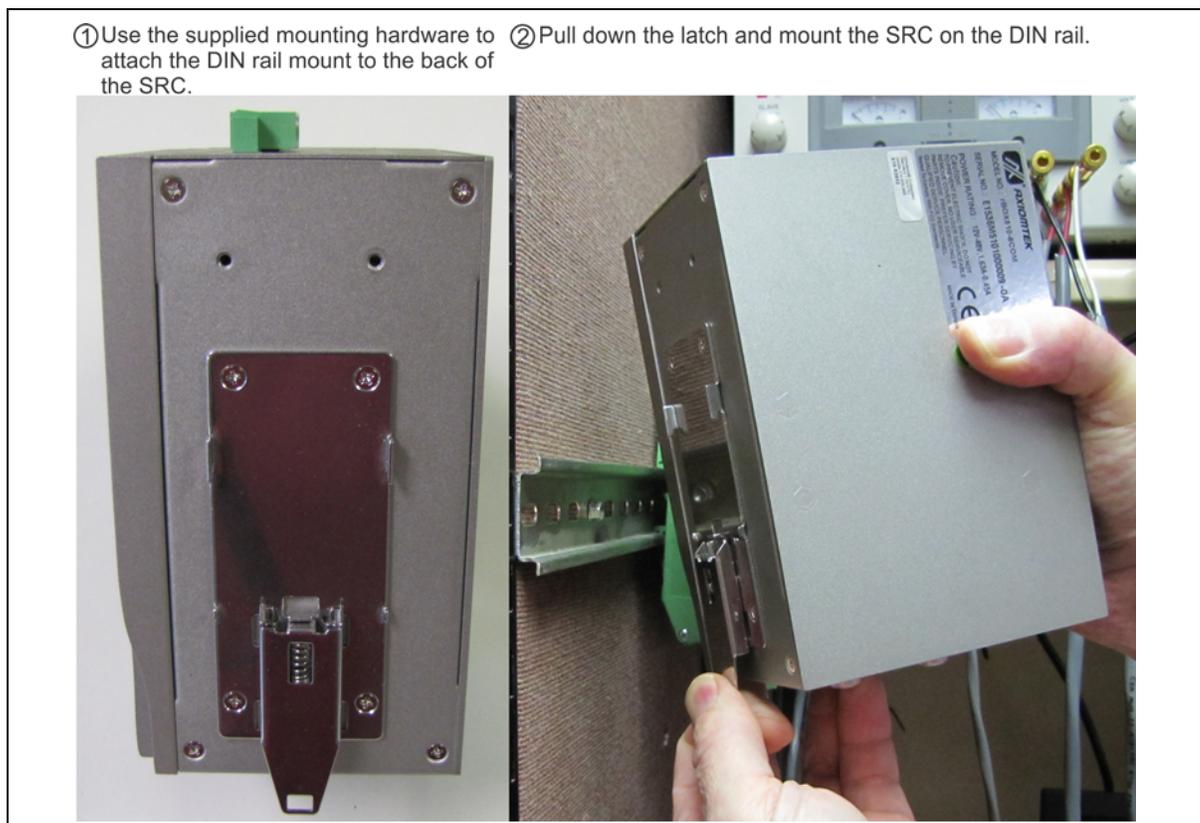


Figure 2: DIN rail mounting

Network Manager Service

The Network Manager Service (NMS) handles the alarm data management for the Silver, FiberPatrol, CCC, Crossfire, Krypton, Sennet, and Starcom networks. The NMS functions as a data server which collects and distributes alarm point data and control point status for third party Security Management Systems via the Network Manager Interface (NMI) or generic text, or legacy Starcom protocol. Up to 10 instances of the NMS can run on one Senstar Rugged Controller, with each controlling an independent network of security devices.

Note

Consult the online help for detailed information on NMS setup and operation.

Universal Configuration Module

The Universal Configuration Module (UCM) is a Windows-based software application that performs the calibration, setup, maintenance and diagnostic functions for Senstar's line of intrusion detection sensors. The UCM can connect directly to a sensor via USB or remotely via the Network Manager Service. When you start the UCM, a window displays that enables you to specify the device to which you are connecting.

Note

Consult the online help for detailed information on UCM operation.

Alarm Integration Module

The Alarm Integration Module is a text-based security management system that can display the alarm status for up to five Network Managers. Optionally, a status map can be configured to graphically display the status of the sensor alarms. The Alarm Integration Module can run on the Senstar Rugged Controller along with the Network Manager Service(s). Communication to the NMS is through the Network Manager's SMS connections. Optional user interface devices (monitor, mouse, keyboard) are required to make use of the AIM as a local SMS.

Note	Consult the online help for detailed information on AIM configuration and operation.
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Initial setup

Note	The initial setup activity will get the SRC up and running. However, initial setup does not include the setup details for your site specific application.
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- Connect a VGA monitor, USB mouse and USB keyboard to the SRC.
- If the SRC will communicate over a network, connect Ethernet.

Note	A USB hub will be required if there is a need to connect additional USB devices. For example, to transfer files from a USB memory stick.
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- Apply power to the SRC (see [Figure 3:](#)) and login as the default user (no password is required).
- Configure the Operating System (as required) to meet your requirements (for example):
 - Define a login password for the default user (DO NOT lose this password).
 - Add to the domain (if applicable).
 - Assign the IP address for the Ethernet connection(s).
 - If the NMS will be accessed by an SMS or a UCM on another computer, enable the NMS to communicate through Windows firewall (Control Panel > System and Security > Windows Firewall > Allowed Programs - C:\Senstar\Network Manager\NMSservice.exe).
 - Enable Remote Desktop Control (if the SRC will not include a permanent monitor).
 - Disable the Screen Saver feature if the Alarm Integration Module will run on the SRC.
- Modify the Network Manager Suite software installation, if required (for example, Enable Auto-start of additional Network Manager Services; enable Auto-login and Auto-start of the Alarm Integration Module).
 - Open the Control Panel.
 - Select Programs and Features.
 - Right-click Network Manager Suite and select Change (the InstallShield Wizard will open).
 - Select Modify and follow the InstallShield Wizard's instructions to update the installation.
 - Restart the SRC to implement the changes.
- Use the Desktop shortcut to open the Network Manager Service Front Panel.

Note	Refer to the NMS Front Panel online help for detailed instructions on configuring the Network Manager Service (select the Quick Start topic for a step by step procedure).
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- If required by this site, use the Desktop shortcut to open the Network Manager Alarm Integration Module.

Note Refer to the Alarm Integration Module online help for detailed instructions on configuring the Alarm Integration Module.

Connection diagrams

The following figures illustrate the required and available connections for the Senstar Rugged Controller:

CAUTION Senstar strongly recommends that lightning protection devices be used anywhere that copper wires enter, or exit, a building.

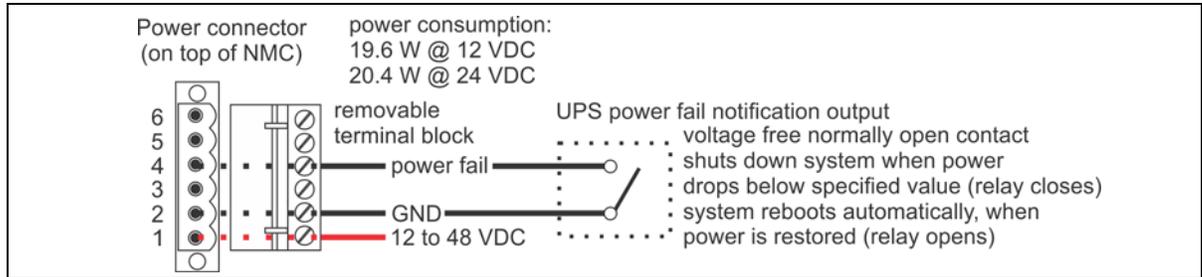


Figure 3: Power input and consumption

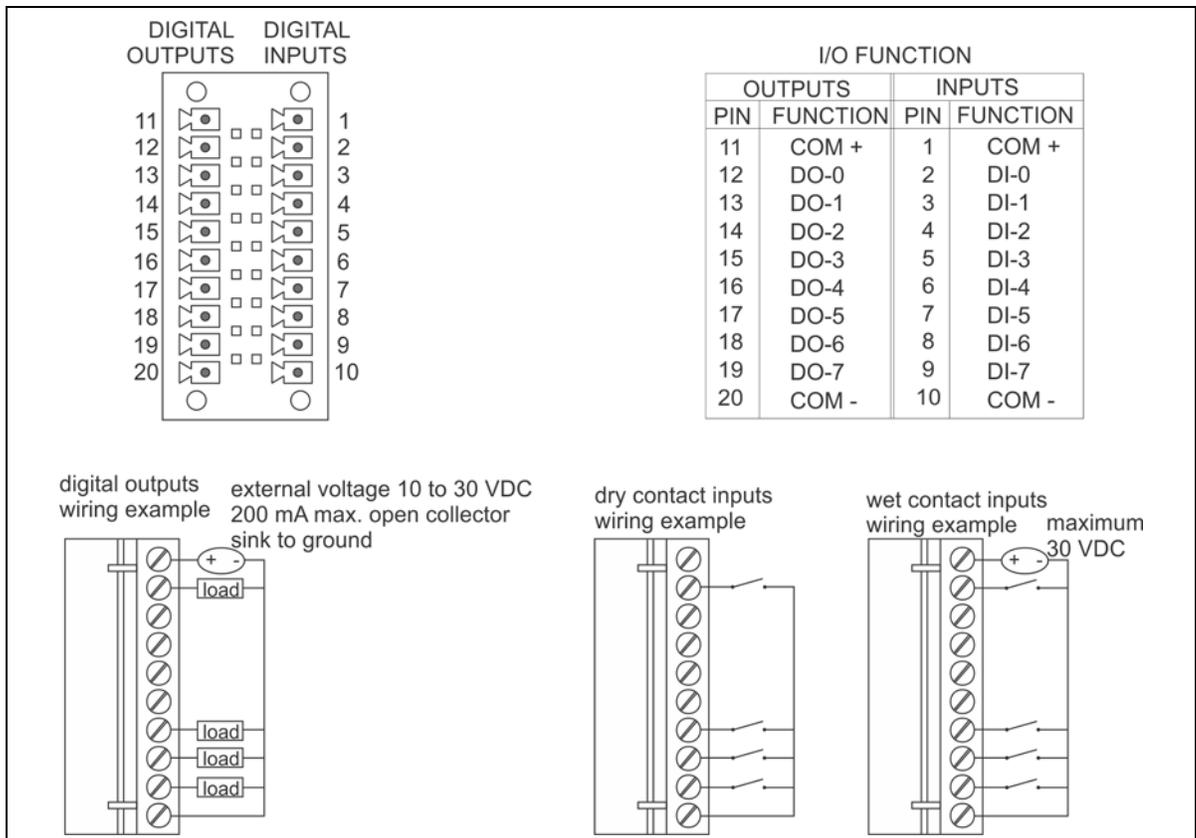


Figure 4: Input/output connectors and functions

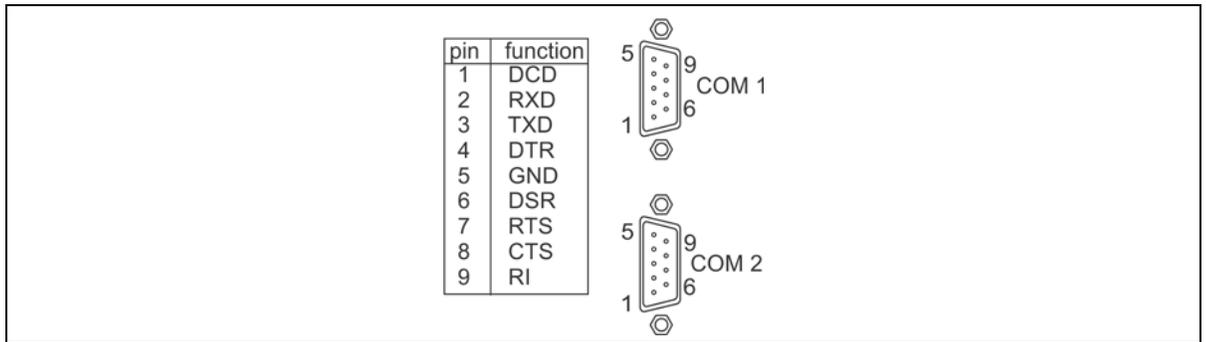


Figure 5: EIA-232 connectors

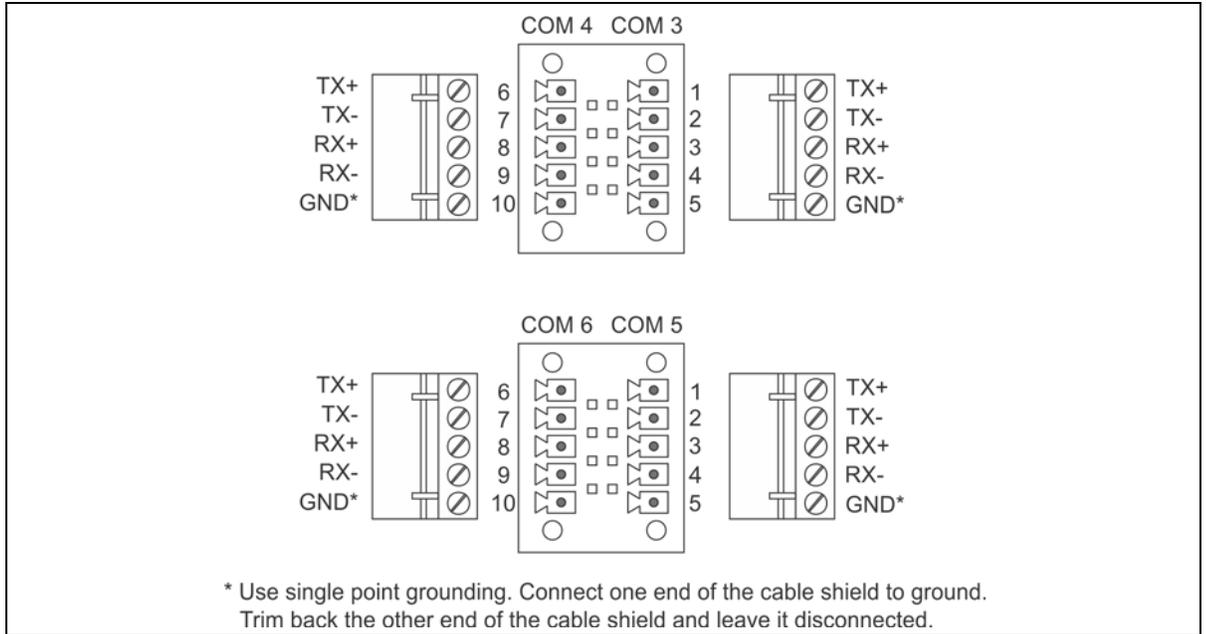


Figure 6: EIA-422 connectors