MDC-SR10-V2

USER GUIDE

PLUG INTO THE FUTURE OF TECHNOLOGY

ADDC | ARNOUSE DIGITAL DEVICES CORPORATION

Revision History

Revision	Notes
V1.0	Revision 1.0 was published in November of 2023.

Table of Contents

How to Read this Document

This manual details installation of the mobile data center, the components inside of the mobile data center, and notable features of the MDC-SR10-V2 mobile server solution.

Installations will be supported by ADDC. Unless otherwise specified, all instructions provided in this manual will assume that a user is a trained technician.

Notes, Important Information & Warnings

⚠ You will see this icon throughout the manual intended to point out warnings, important information, and briefly explain any new terminology.

Section 1.0 - Receiving Your MDC-SR10-V2

Section 1.1 - What's in the Box?

MDC-SR10-V2 Case

Equipment (Included)

- MDC-SR10-V2 Case
- BioDigitalPC® Server Cards [Check Invoice for Quantity]
- (1) DC Input Cable
- (1) AC Power Cord

Equipment (Not Included)

- Laptop or Testing Network

a 5-pin Mil-5015 type Circular Connector DC Input Cable

AC Power Cord

Section 2 - MDC-SR10-V2 Preparation

Section 2.1 - Preparing For Your MDC-SR10-V2

Temperature Considerations
Your MDC-SR10-V2 is designed to operate at room temperature with its self-contained cooling.

Power Considerations
When properly configured and installed the MDC-SR10-V2 can draw up to 200 Watts depending on the number, load, and version of the BioDigitalPC®s used.

⚠ To prevent improper cooling of equipment, do not block the fans.

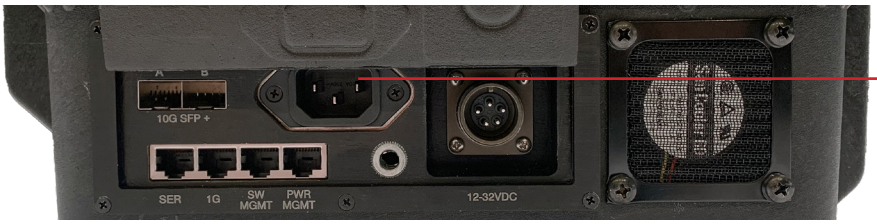
Section 2.2 - Installing Your BioDigitalPC®s

BioDigitalPC®s are hot-pluggable, meaning technicians do not need to remove power to begin adding or removing them.

⚠ Only trained technicians are authorized to work beneath the MDC-SR10-V2 System Cover and access any of the components inside the system.

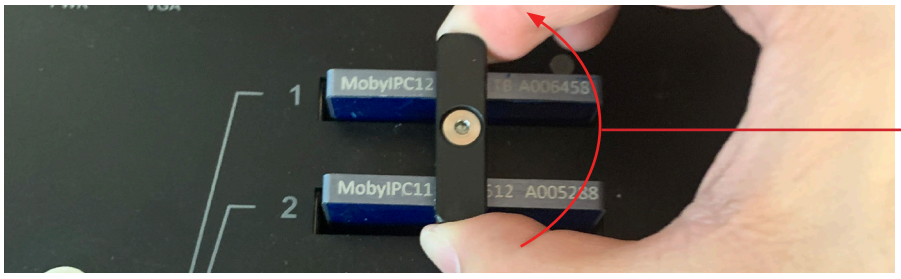
Section 2.2.1 - Opening the MDC-SR10-V2 Case:

Section 2.2.2 - Connect AC Power Cord



Section 2.2.3 - Installing a BioDigitalPC®

Section 2.2.4 - Secure BioDigitalPC® With the Card Holder

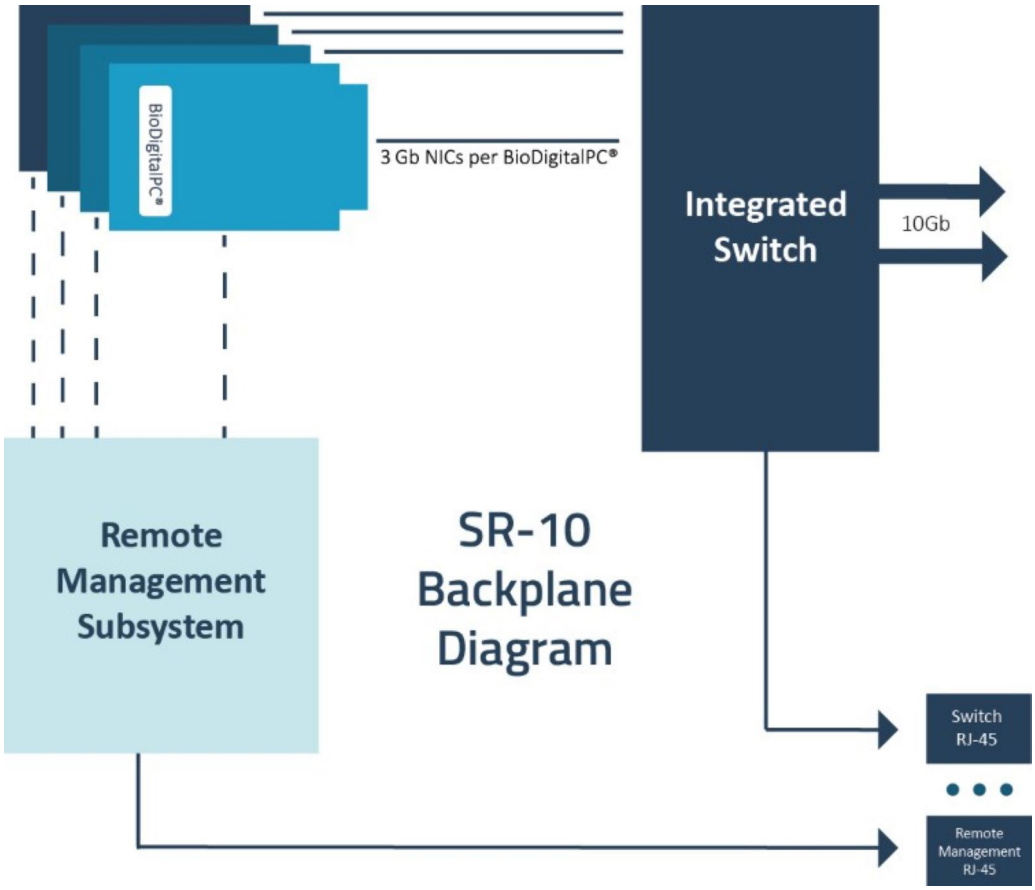


Section 2.3 - Connect Monitor and Power On Your MDC-SR10-V2

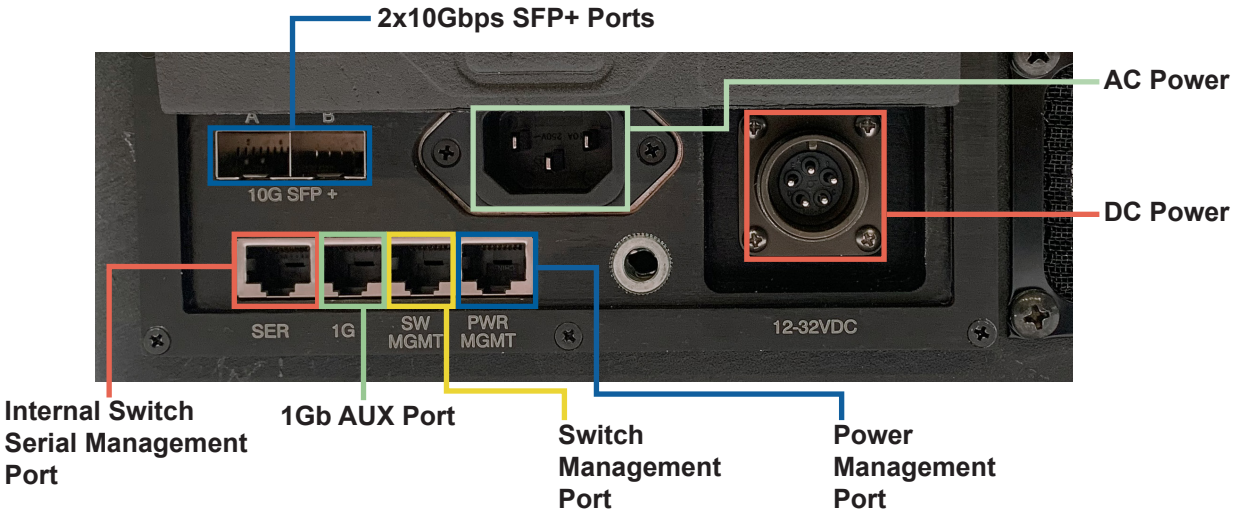
Section 3 - MDC-SR10-V2 Overview

Section 3.1 - SR-10 Module

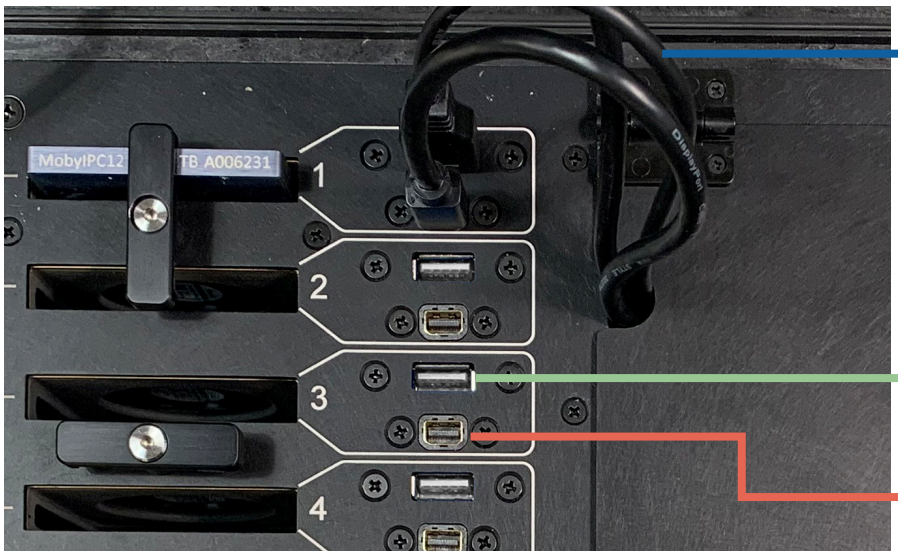
As shown in Section 3, the MDC-SR10-V2 consists of a single SR-10 Module. The SR-10 Module contains 10 BioDigitalPC® slots, each having three 1Gbps NICs attached to an integrated switch. Each switch has two SFP+ 10Gbps connectors and one 1Gbps RJ-45 connector broken out to the side panel of the MDC-SR10-V2 (See Section 3.2 for additional information). Each SR-10's integrated switch and BioDigitalPC® power control are managed via the MDC-SR10-V2's Web-based management program called: ROMWare (See Section 4 for additional information).



Section 3.2 - Side Panel



Section 3.3 - Connect USB and Video



connect the USB cable coming out of the storage compartment to the USB port on the slot you are using to activate the touch-screen on that slot.

Every slot has a dedicated USB port.

Every slot also has a dedicated Mini-DP video port.

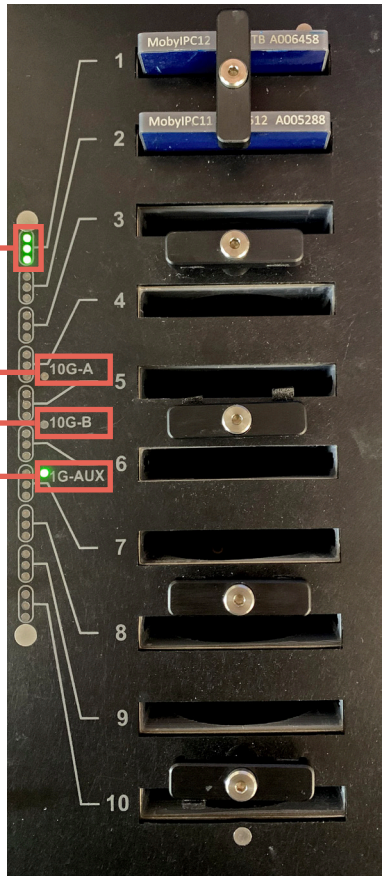
Section 3.4 - Network LEDs

An individual slot's 1Gbps NIC LEDs. One LED for each 1Gbps NIC

10G-A: SR-10's 10Gbps SFP+ Port Status LED

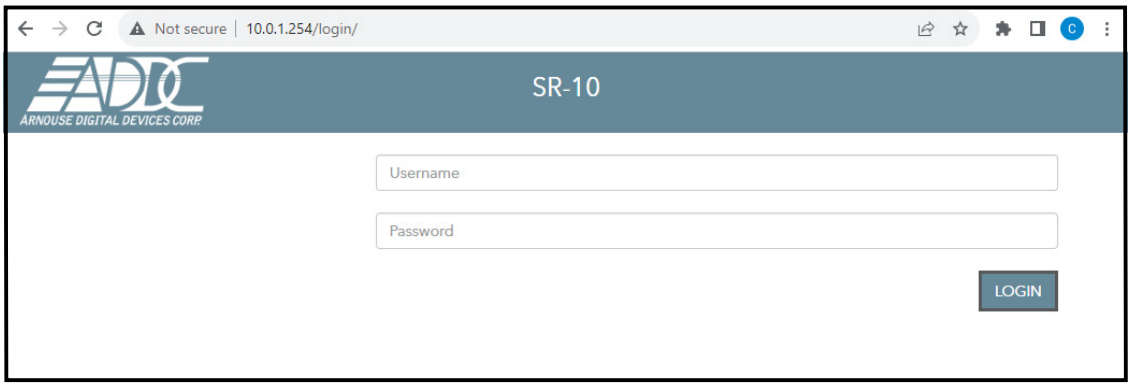
10G-B: SR-10's 10Gbps SFP+ Port Status LED

1G-AUX: SR-10's auxiliary one Gigabit Port Status LED



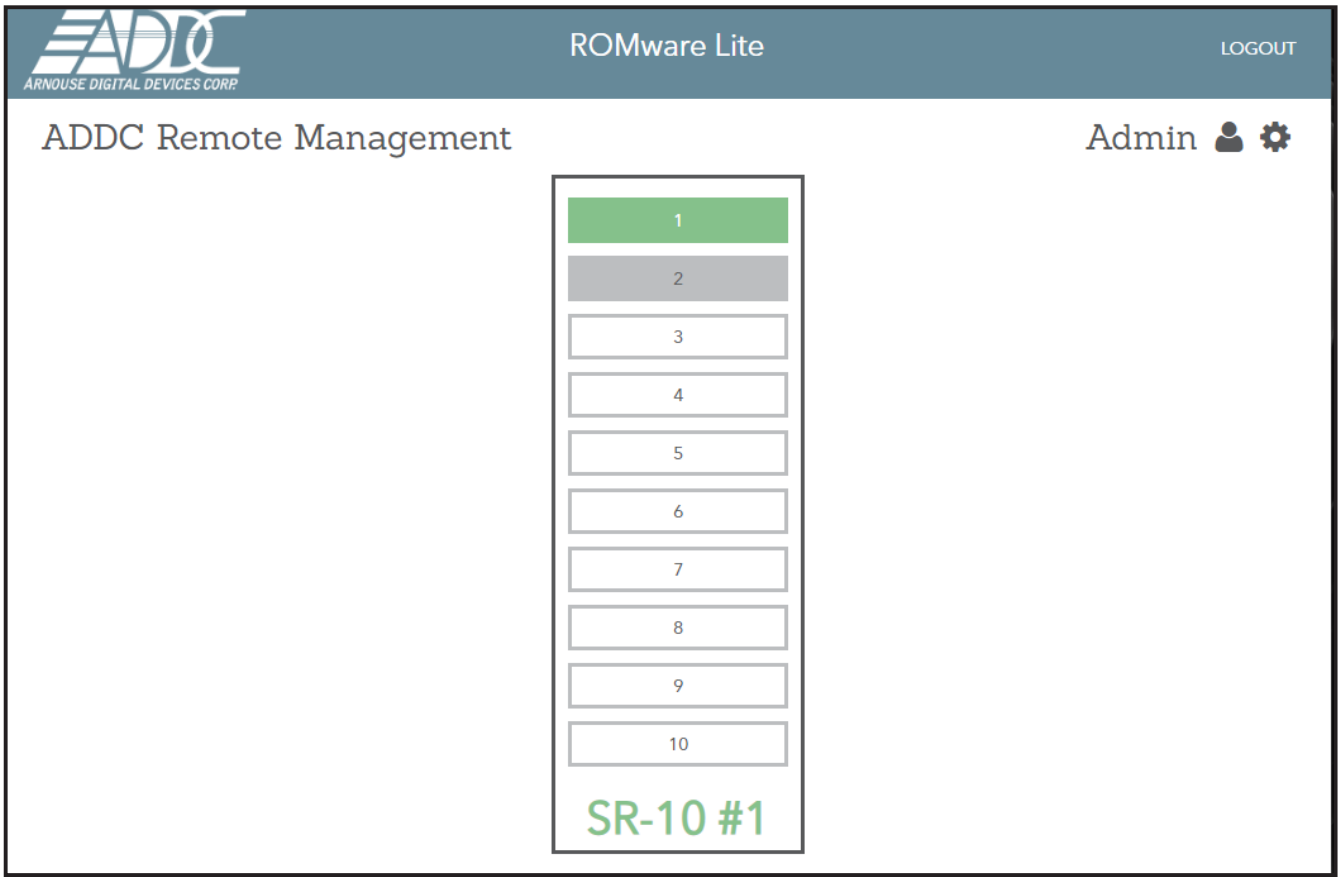
Section 4 - ROMware Software

Section 4.1 - Login



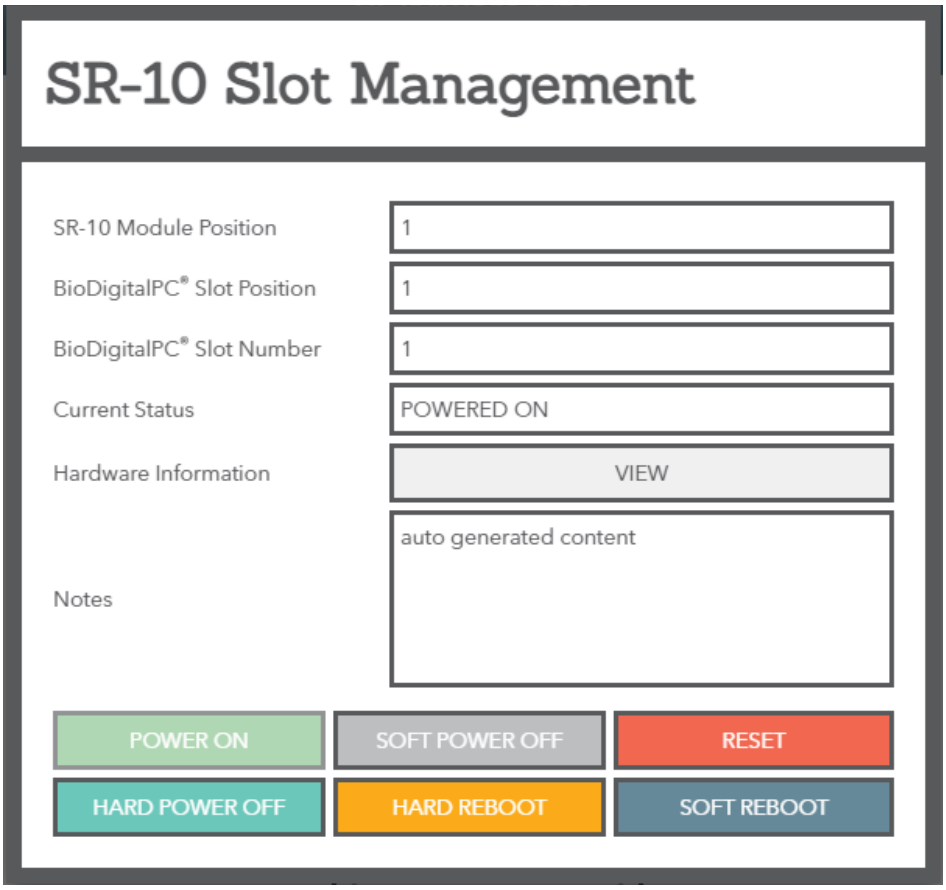
The web interface for ROMWare asks for credentials to log in and begin management and/or monitoring of your MDC-SR10-V2 Users are supplied with administrative credentials that have been factory set. Only one admin can be logged in at once, through the IP 10.0.1.254.

Section 4.2 - Main Screen Overview



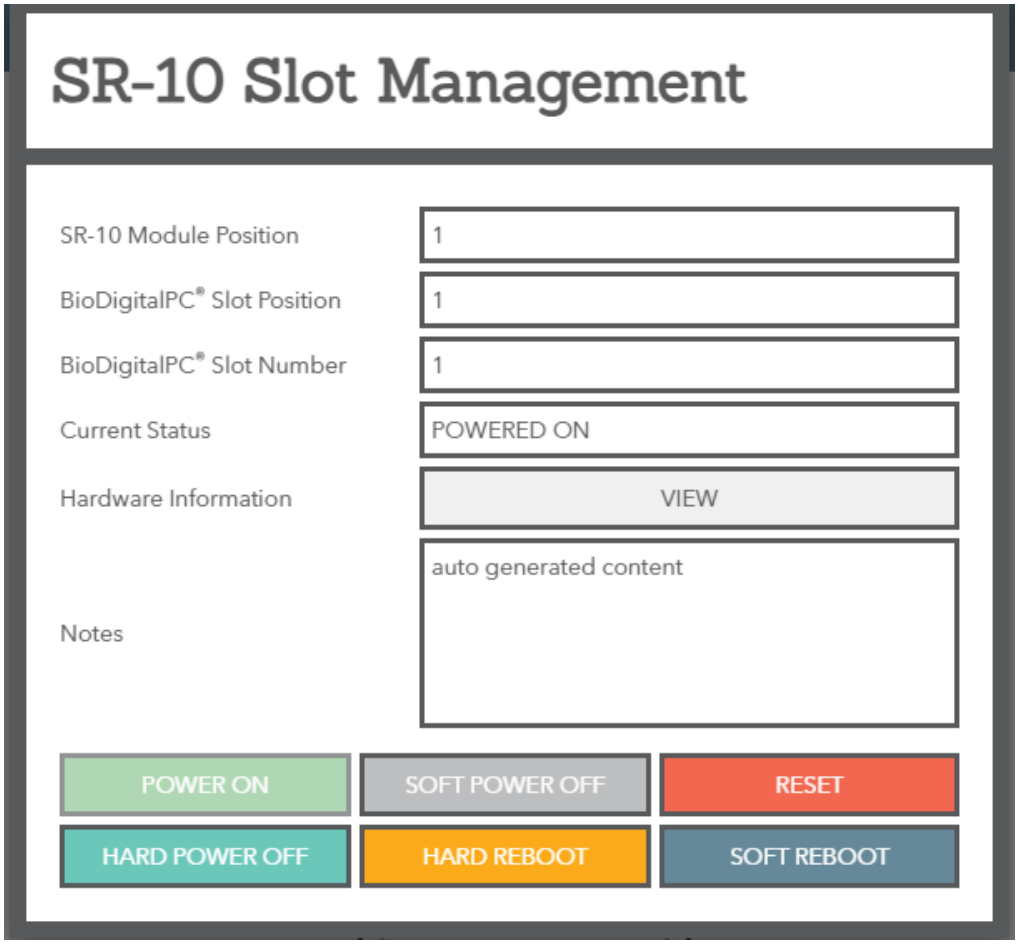
Section 4.3 - BioDigitalPC® Power Control & Monitoring

Displaying the card management features of the MDC-SR10-V2 is done by clicking the **Slot Number.**



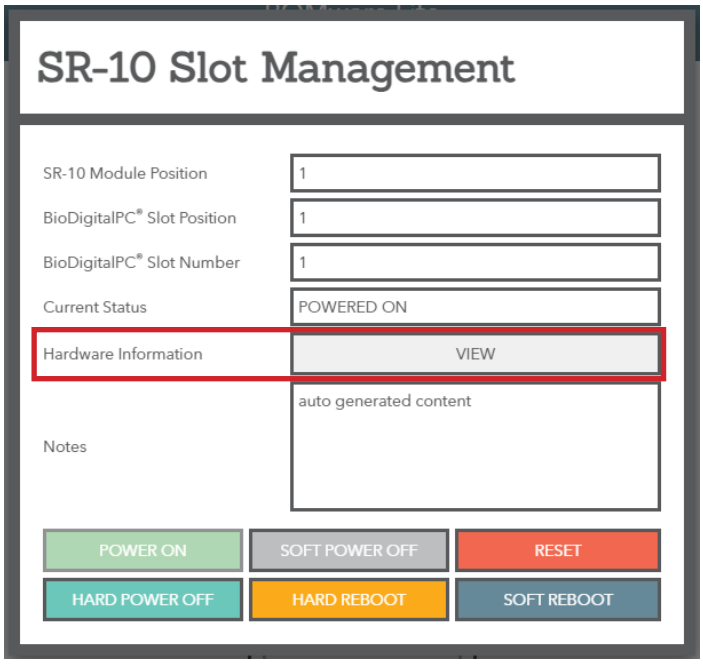
POWER ON	Powers on the BioDigitalPC® Server card.
HARD POWER OFF	Immediately removes power from the BioDigitalPC® Server card.
SOFT POWER OFF	Sends a signal to the BioDigitalPC® Server card to shut down gracefully
HARD REBOOT	Removes power from the BioDigitalPC® Server card, waits 30 seconds and then applies power back to the BioDigitalPC® Server card.
RESET	Removes power from the remote power control. Do not use this unless specifically instructed to.
SOFT REBOOT	Gracefully reboots the BioDigitalPC® Server card.

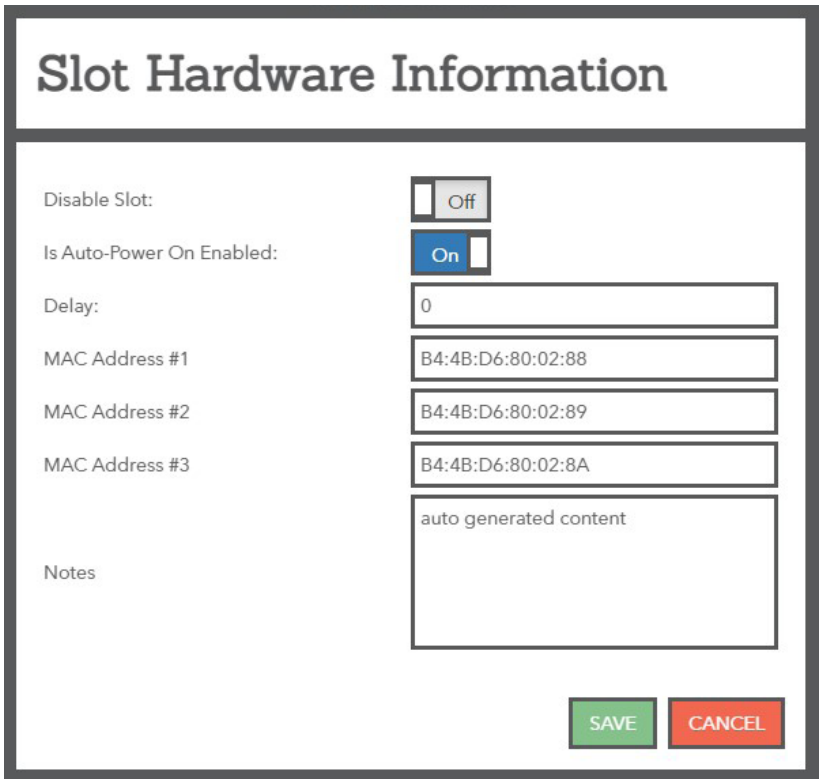
Section 4.3 - BioDigitalPC® Power Control & Monitoring



BioDigitalPC® Slot Number	The unique MDC-SR10-V2 slot number
SR-10 Module Position	The position number of the SR-10 Module within the MDC-SR10-V2
BioDigitalPC® Slot Position	The Position of the Slot within the SR-10 Module
Current Status	Displays the current status of the slot: Present, Not Present, On and Off
Hardware Information	Click "View" to show the Slot Hardware Information. See the page 16 for more information.

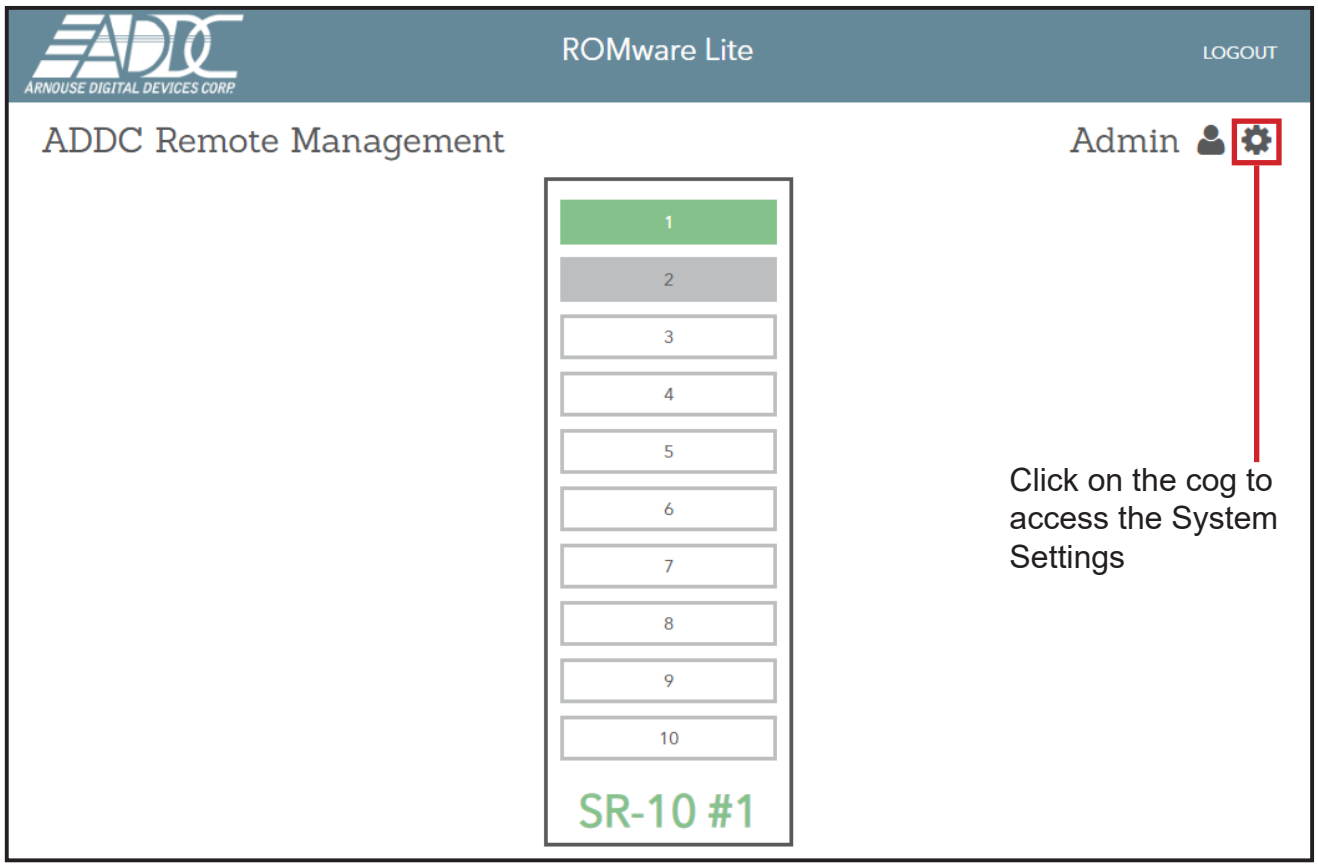
Section 4.3 - BioDigitalPC® Power Control & Monitoring

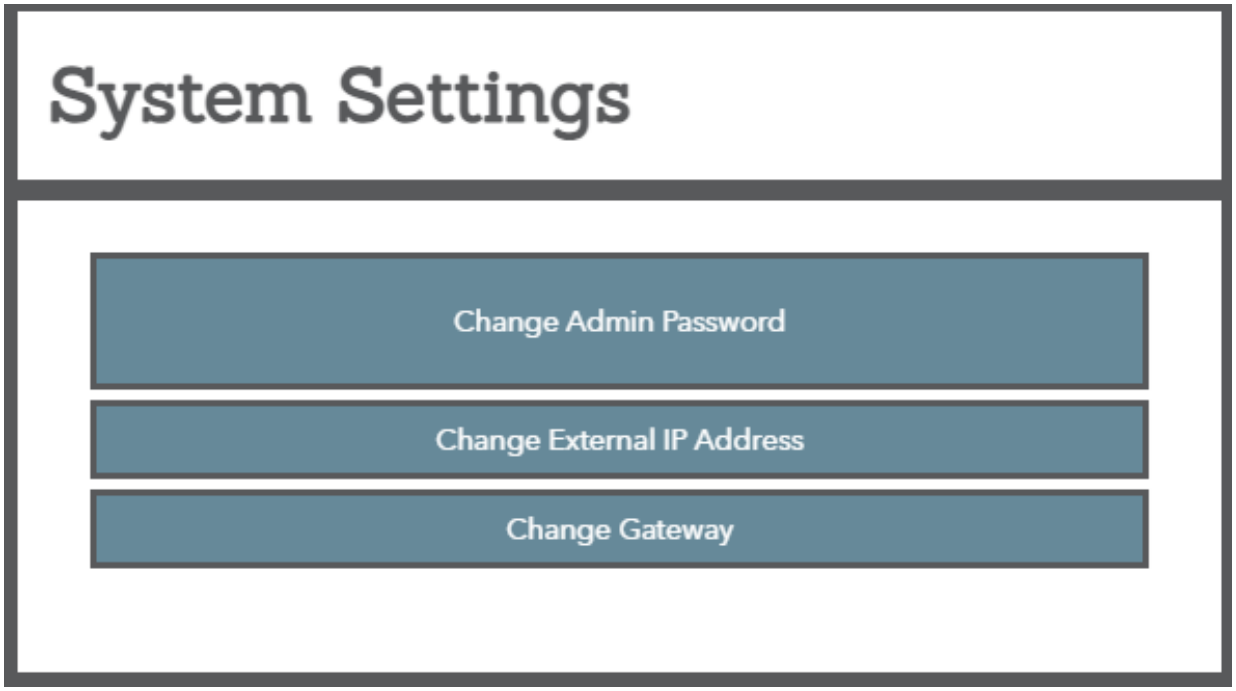




Disable Slot	Disables the slot for this SR-10 module.
Is Auto-Power On Enabled	With this option enabled, after boot up of the MDC-SR10-V2 the BioDigitalPC® in this slot will be powered on (if present) automatically after the number of seconds specified in the delay box (below).
Delay	The number of seconds to wait after power up of the MDC-SR10-V2 before powering on the BioDigitalPC® (if present) in this slot.
MAC Address [1, 2, 3]	MAC addresses of the 3 1Gbps NICS for this slot.

Section 4.4 - MDC-SR10-V2 System Settings





The System Settings allows the user to change four things: ROMware password, the machines IP address, the machines Gateway and the ability to enable or disable the Keypad