



# MDC-SR10-V2 USER GUIDE

PLUG INTO THE FUTURE OF TECHNOLOGY

# Revision History

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

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# 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<sup>®</sup>s used.

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

## Section 2.2 - Installing Your BioDigitalPC<sup>®</sup>s

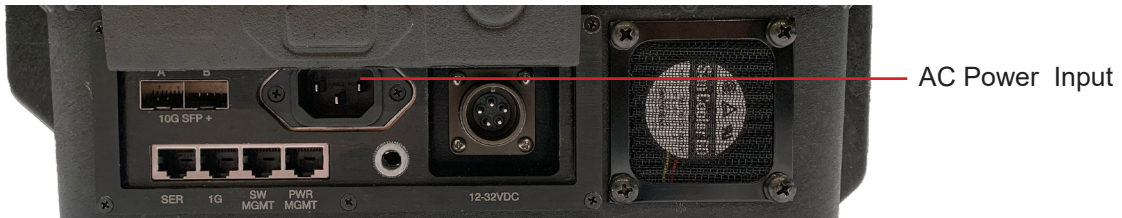
BioDigitalPC<sup>®</sup>s are hot-pluggable, meaning technicians do not need to remove power to begin adding or removing them.

⚠ 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<sup>®</sup>



### Section 2.2.4 - Secure BioDigitalPC<sup>®</sup> With the Card Holder



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



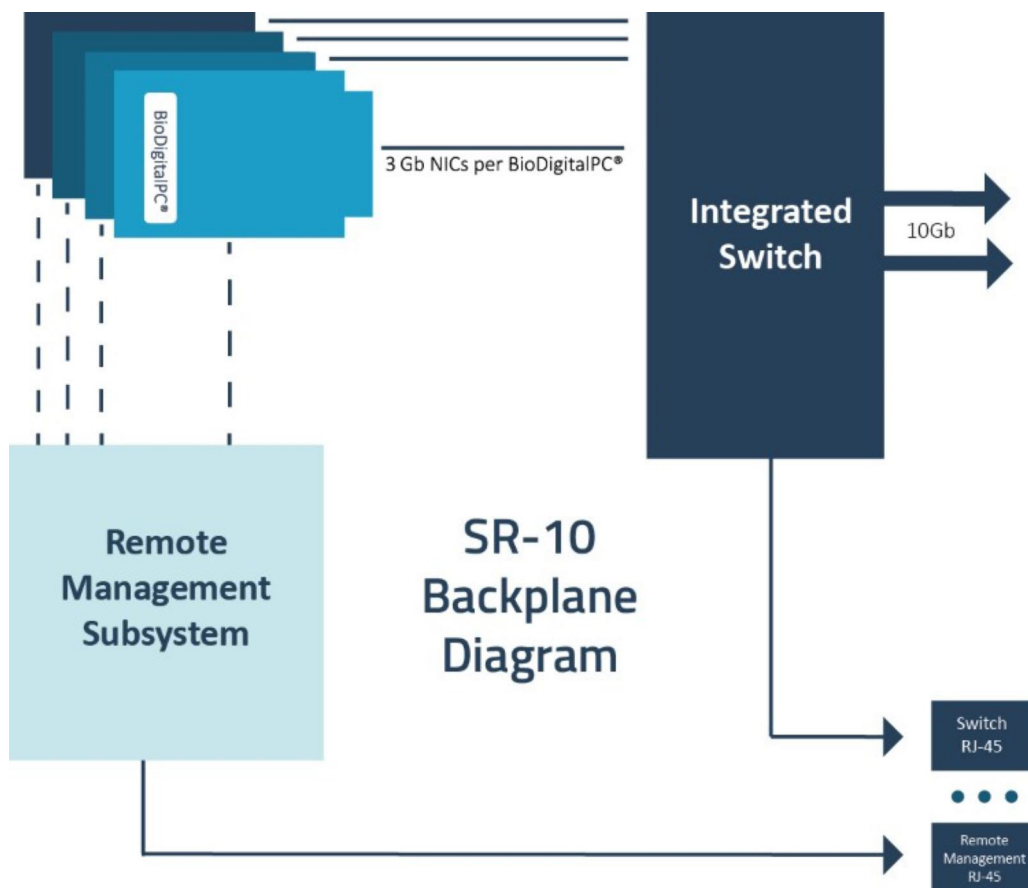


# Section 3 - MDC-SR10-V2 Overview

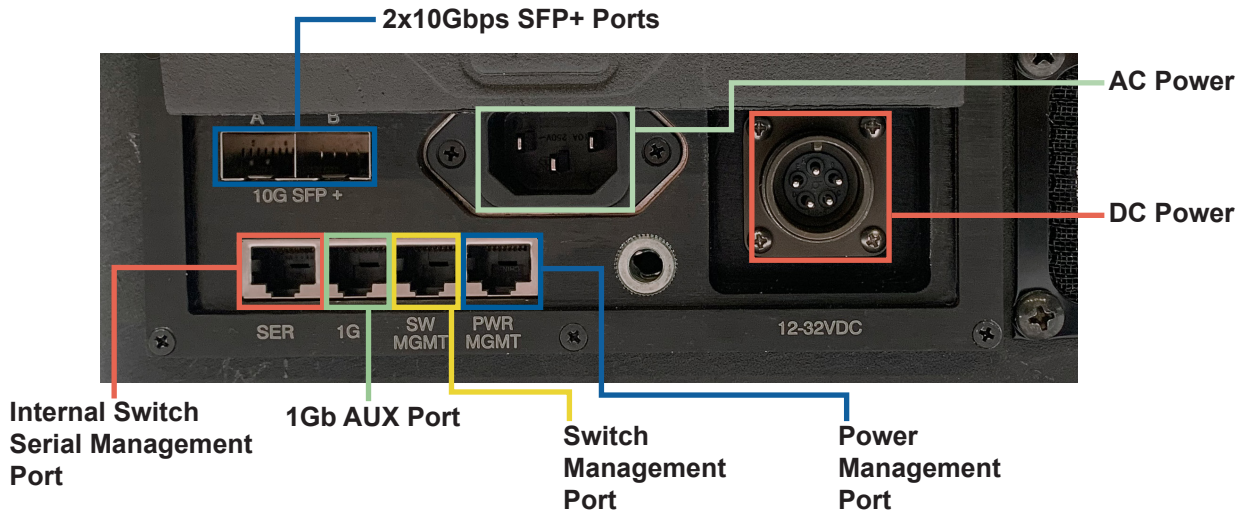


## Section 3.1 - SR-10 Module

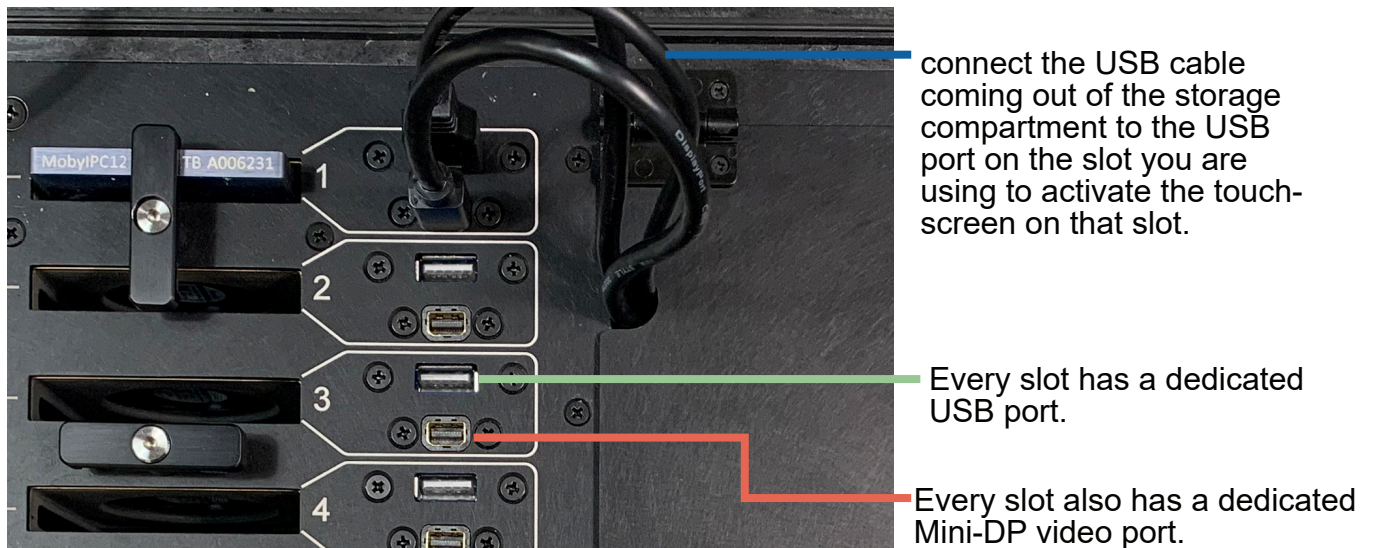
As shown in [Section 3](#), the MDC-SR10-V2 consists of a single SR-10 Module. The SR-10 Module contains 10 BioDigitalPC® slots, each having three 1Gbps NICs attached to an integrated switch. Each switch has two SFP+ 10Gbps connectors and one 1Gbps RJ-45 connector broken out to the side panel of the 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



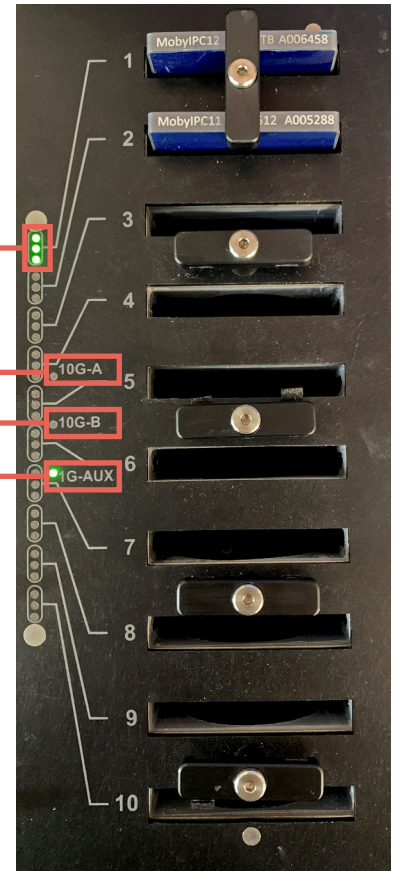
## Section 3.4 - Network LEDs

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

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

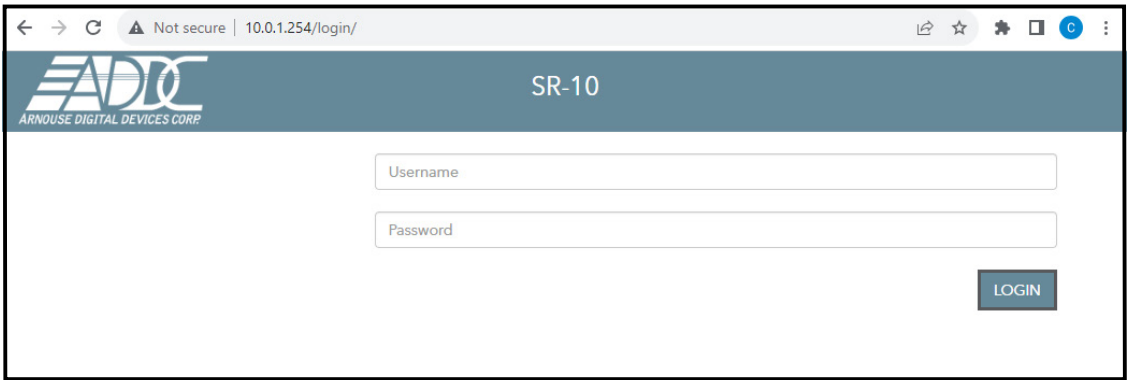
**10G-B:** SR-10's 10Gbps SFP+ Port Status LED

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



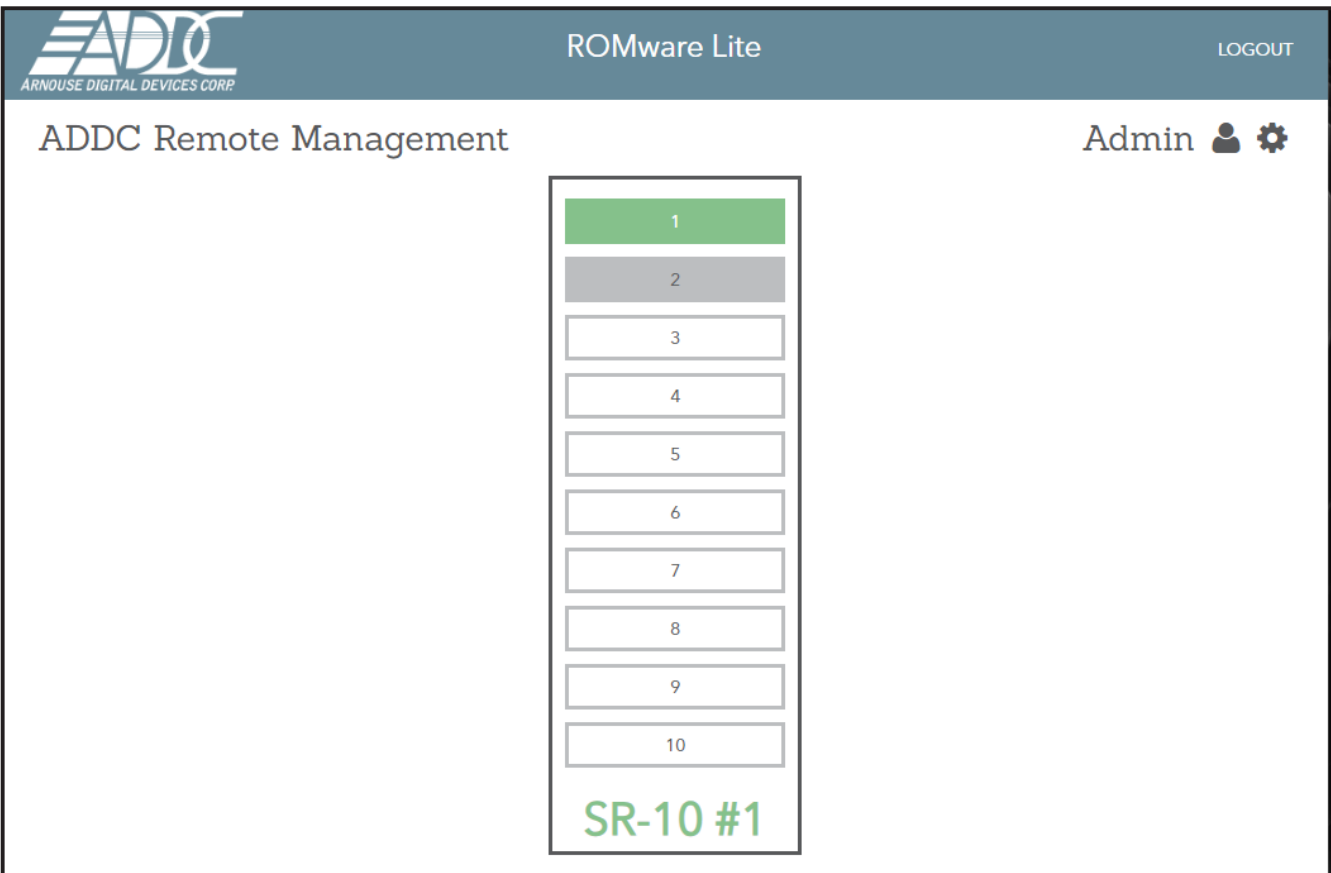
# Section 4 - ROMware Software

## 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**.

### SR-10 Slot Management

SR-10 Module Position	<input type="text" value="1"/>
BioDigitalPC® Slot Position	<input type="text" value="1"/>
BioDigitalPC® Slot Number	<input type="text" value="1"/>
Current Status	<input type="text" value="POWERED ON"/>
Hardware Information	<input type="button" value="VIEW"/>
Notes	<div>auto generated content</div>

Powers on the BioDigitalPC® Server card.

Immediately removes power from the BioDigitalPC® Server card.

Sends a signal to the BioDigitalPC® Server card to shut down gracefully

Removes power from the BioDigitalPC® Server card, waits 30 seconds and then applies power back to the BioDigitalPC® Server card.

Removes power from the remote power control. Do not use this unless specifically instructed to.

Gracefully reboots the BioDigitalPC® Server card.

## Section 4.3 - BioDigitalPC® Power Control & Monitoring

### SR-10 Slot Management

SR-10 Module Position	1
BioDigitalPC® Slot Position	1
BioDigitalPC® Slot Number	1
Current Status	POWERED ON
Hardware Information	VIEW
Notes	auto generated content

POWER ON

SOFT POWER OFF

RESET

HARD POWER OFF

HARD REBOOT

SOFT REBOOT

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 <a href="#">page 21</a> for more information.

## Section 4.3 - BioDigitalPC® Power Control & Monitoring

### SR-10 Slot Management

SR-10 Module Position

BioDigitalPC® Slot Position

BioDigitalPC® Slot Number

Current Status

Hardware Information

Notes

POWER ON
SOFT POWER OFF
RESET

HARD POWER OFF
HARD REBOOT
SOFT REBOOT

### Slot Hardware Information

Disable Slot:  Off

Is Auto-Power On Enabled:  On

Delay:

MAC Address #1

MAC Address #2

MAC Address #3

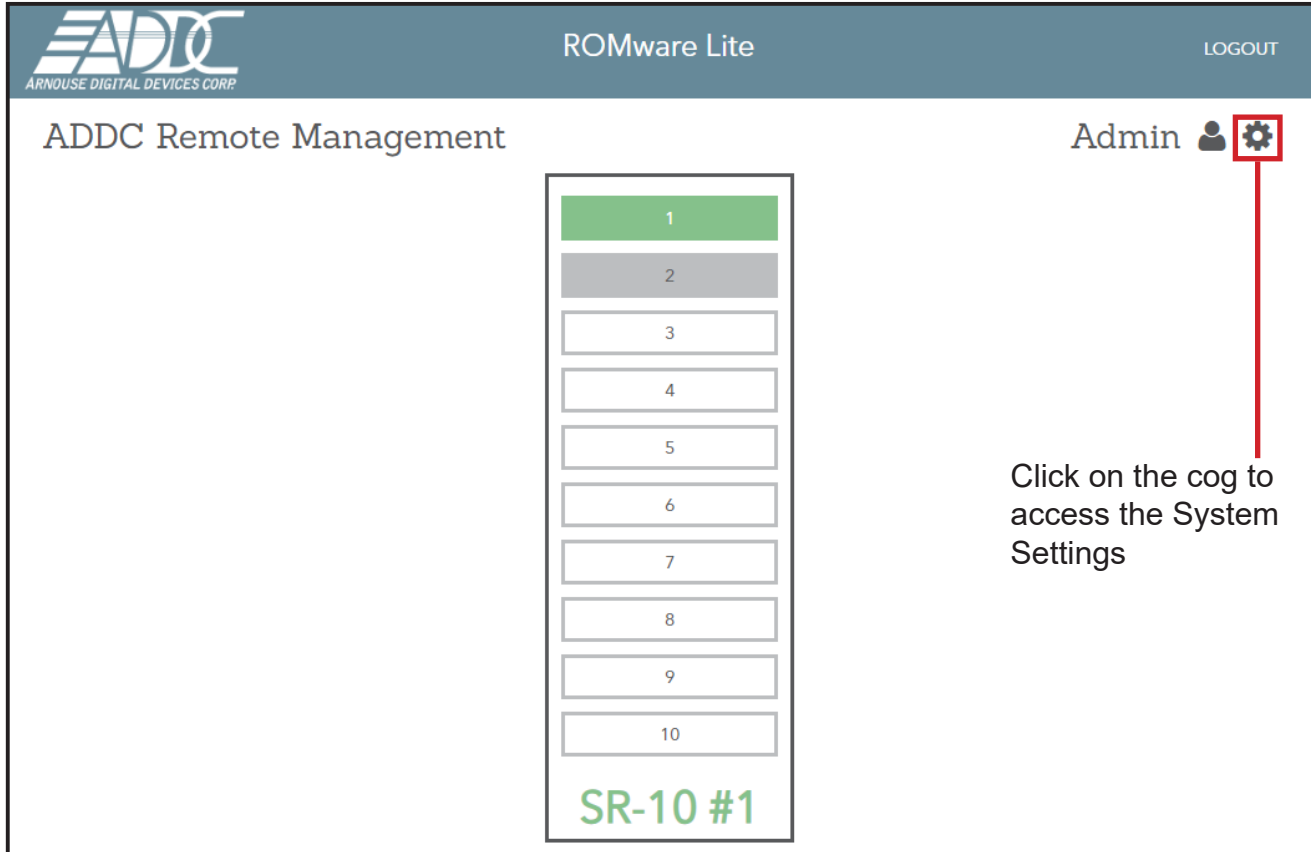
Notes

SAVE
CANCEL

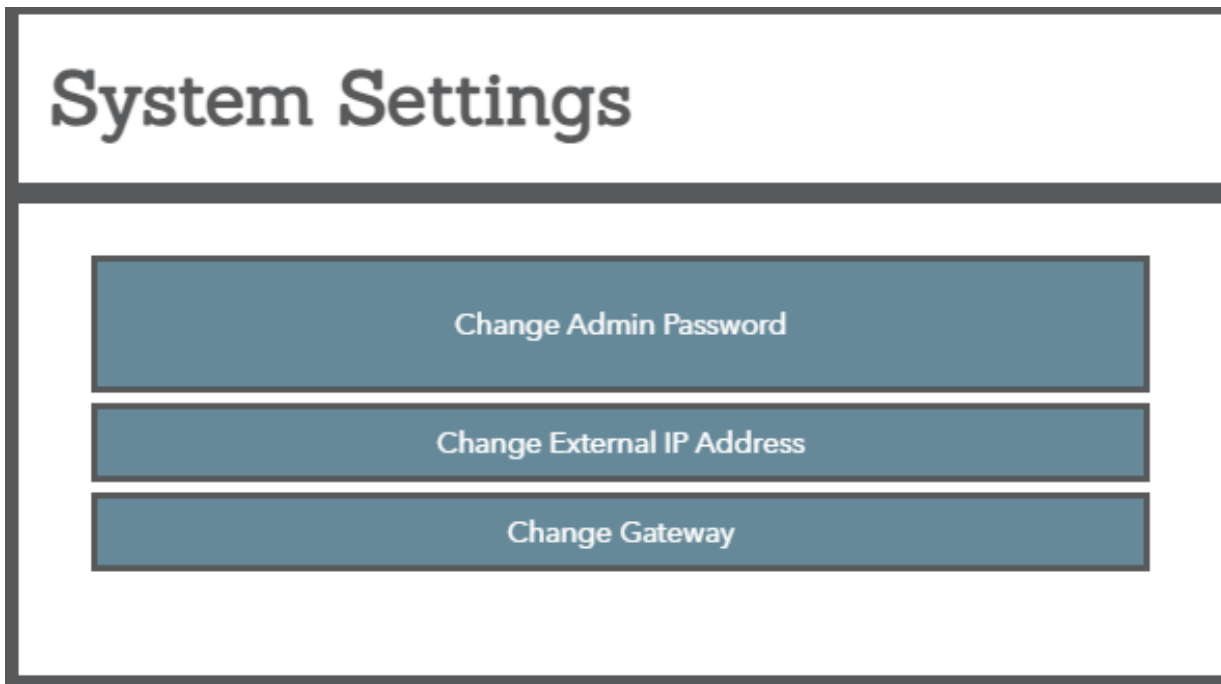
Disable Slot	Disables the slot for this SR-10 module.
Is Auto-Power On Enabled	With this option enabled, after boot up of the MDC-SR10-V2 the BioDigitalPC® in this slot will be powered on (if present) automatically after the number of seconds specified in the delay box (below).
Delay	The number of seconds 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 screenshot shows the ADDC Remote Management interface. At the top left is the ADDC logo with the text "ARNOUSE DIGITAL DEVICES CORP". In the center top is "ROMware Lite" and at the top right is "LOGOUT". Below the logo is the text "ADDCC Remote Management". On the right side, there is a user profile labeled "Admin" with a person icon and a gear icon (cog) next to it. A red box highlights the gear icon, and a red line points from it to a text box that says "Click on the cog to access the System Settings". In the center, there is a vertical list of 10 numbered buttons. The first button is highlighted in green and contains the number "1". Below the list is the text "SR-10 #1" in green.



The screenshot shows the "System Settings" page. The title "System Settings" is at the top. Below the title are three buttons stacked vertically: "Change Admin Password", "Change External IP Address", and "Change Gateway".

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