

Virtual Front Panel

Nov 2023

Introduction

The RX1 has what is called a 'Virtual Front Panel'. This is a text based representation of the physical front panel, to allow remote front panel operations.

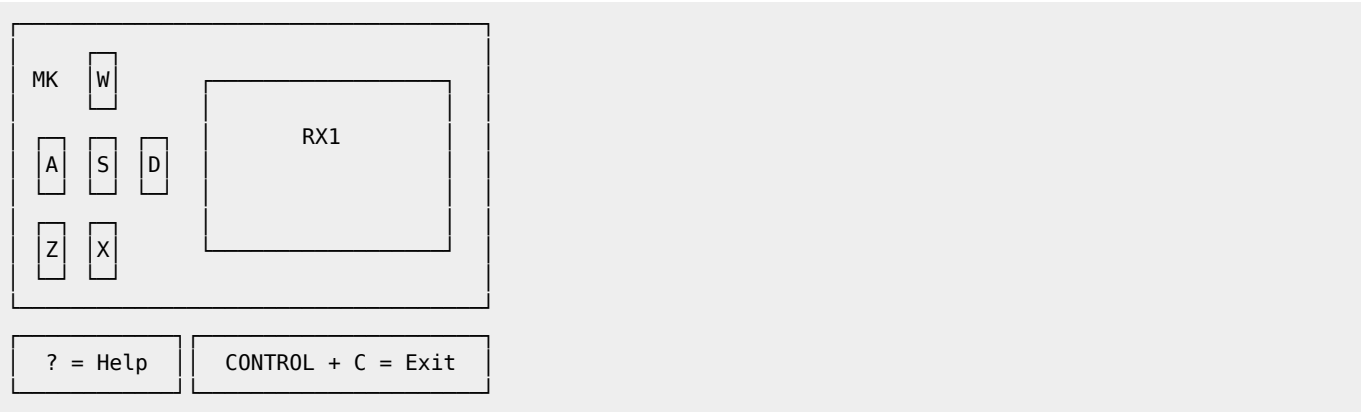
Running the Virtual Front Panel

To invoke the front panel, you need to SSH in to the unit, then you can start the virtual front panel by entering:

```
frontPanel
```

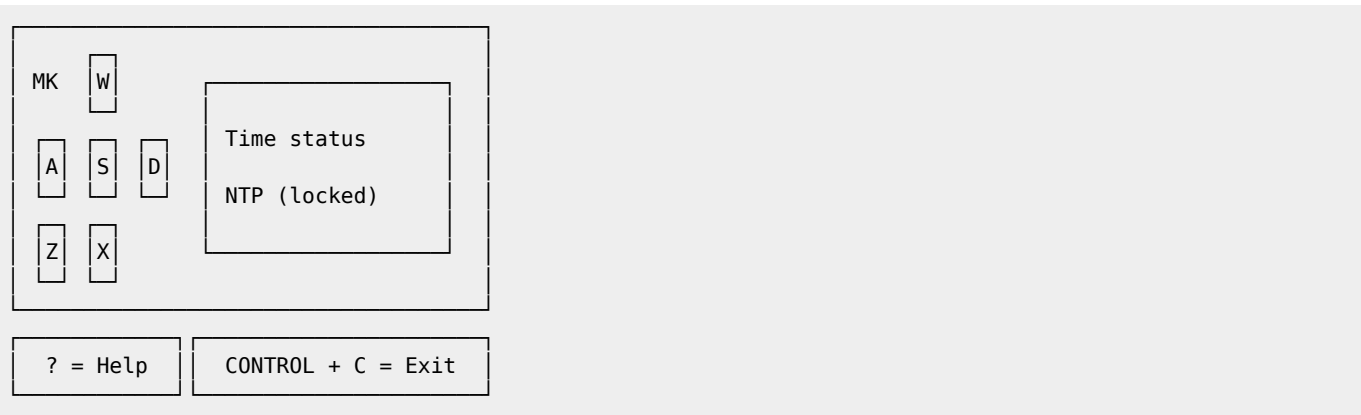
This does not require any elvevated access.

Here is an example of what the virtual frontPanel looks like:



There are some items on the RX1 that have to be controlled via the front panel, and cannot be controlled from SSH (or not easily) and an example of one of these functions is time synchronisation.

By pressing 'X' (down) twice we get to the Time Status menu.



Setting NTP Servers from the Virtual Front Panel

To set the NTP time from the virtual front panel, use the following keys:

D X X D

This will display the first Network Interface in the RX1

MK	W		
A	S	D	eth0
Z	X		
? = Help		CONTROL + C = Exit	

To get the NTP settings, you have to scroll down using 'X', however, it depends on how many physical interfaces the RX1 has that dictates how many times you have to scroll down.

Scroll down until you see 'NTP server 1':

MK	W		
A	S	D	NTP server 1: 000.000.000.000
Z	X		
? = Help		CONTROL + C = Exit	

If no NTP server has been configured, then you will see all zeroes *NOTE* please read the section at the end of this document regarding this statement.

To set/change the NTP address press 'S' and enter the new NTP IP.

MK	W		
A	S	D	NTP server 1: 162.159.200.123
Z	X		
? = Help		CONTROL + C = Exit	

Then press 'S' again to save it.

If you press 'X' you can scroll down to NTP Server 2 and change that in the same manner.

Restart the NTP server by either performing a reboot, or using the following command from the SSH terminal.

```
systemctl restart ntpd
```

To check that NTP is working, you can perform this command from the SSH terminal:

```
ntpstat
```

You should see something similar to below:

```
synchronised to NTP server (162.159.200.123) at stratum 4  
time correct to within 1050 ms  
polling server every 64 s
```

What did I just change?

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