



DSX Access Systems, Inc.

DSX-IP-HUB Configuration -

Programming and Commissioning

The **DSX-IP-HUB** is a DSX Controller communications router. It allows communication from the Master Controller to be distributed via IP to Sub Controllers using a DSX-LAN-D or a UDS1100. In some applications this Module can take the place of PC Master software with the difference being it requires a Master Controller.

Communication Settings

1. The DSX-IP-Hub Module comes with a preset IP Address of **192.168.1.25** and can be programmed with a web browser. Connect the module to your laptop or network switch and connect using a browser. The module requires **5-12VDC @ 300ma**. Power the module from the **5VDC** output of the 1040-CDM or 1022 Controller. Wiring info on last page.
2. Using the browser enter the default IP Address of **192.168.1.25** with a laptop or PC that has the same IP Schema and subnet. Using a browser enter the IP address and press enter. The DSX-IP-Hub will respond with a Login page where you will enter: *User - master, Password - master*.
3. Once you have logged in, you will be able to program the module. On the Communications Settings Tab - Do Not Change the top 4 items unless instructed to do so. The Serial Port Speed should be **9600**, Internet Protocol should be **IPv4**, the Addressing Mode should be **Static (v4 or v6)**.
4. Assign a **Static IP Address, Subnet mask, Gateway, and DNS**. Perform "IPConfig" from a command prompt to find the last 3 fields. Leave VLAN at 0 unless you are placing the module on a VLAN. Enter the same port number in the **Receive and Transmit Port** fields. This will be the same port number as the **Receive and Transmit Ports** of the LAN modules connected to Sub Controllers or clusters of Sub Controllers regardless of version. Default = 5000

Mac: 00-08-66-11-03
Version: IP-HUB v7.5

DSX IP HUB Logout

Communication Settings Device Address Table Security Settings

Device name for DHCP: DSX_00-08-66-11-00-03

Serial Port Speed: 9600

Internet Protocol: IPv4

Addressing Mode: static(v4 or v6)

Device IP Address: 182.25.16.188

Device Subnet Mask: 255.255.0.0

Device gateway: 182.25.16.26

Device DNS: 182.25.16.3

VLAN ID: 0

Recieve Port: 5000

Transmit Port: 5000

Print Save

5. Click on **Save to keep the settings**. Select Print to get a copy of the configuration.

LAN-D Configuration at Sub Controllers

Example of Revised LAN-D

Mac: 00-08-66-10-00-25
Version: DSXLAN-D v7.6

DSX LAN-D Logout

Communication Settings Security Settings

Device name for DHCP: DSX_00-08-66-10-00-25

Serial Port Speed: 9600

Internet Protocol: IPv4

Addressing Mode: static(v4 or v6)

Device IP Address: 182.25.16.190

Device Subnet Mask: 255.255.0.0

Device gateway: 182.25.16.26

Device DNS: 182.25.16.3

VLAN ID: 0

Receive Port: 5000

Transmit Port: 5000

Dynamic Send:

Print Save

Device Address/Routing Table:

6. Select the **Device Address Table Tab**. Here you will enter the **IP Address** of the LAN modules that are connected to Sub Controllers or clusters of Sub Controllers and the **Device** numbers connected to each one. In the example below there is an IP Address and then a Device List. Enter the IP Address and then click on Devices and enter the Device numbers separated with a comma. The example below shows one of three LAN modules with an IP Address of 182.25.16.190 that is connected to Devices 10, 12, 14, 16. A LAN module can connect to each Sub or a cluster of Sub controllers.

Mac: 00-08-66-11-00-03
Version: IP-HUB v7.5

DSX IP-HUB Logout

Communication Settings Device Address Table Security Settings

IP Address	Devices	
182.25.16.180	2,4,6,8	<input type="checkbox"/>
182.25.16.190	10,12,14,16	<input type="checkbox"/>
182.25.16.191	18,20,22,24	<input type="checkbox"/>

Save New Settings Delete Row() Add Row

Print

- Enter the IP Address and then the Devices separated by a comma. Then Click on **Add Row** to enter another IP Address and Device List. Enter Even Number Addresses Only.
- ***** **Connect no more than 8 controllers per LAN Device. More than 8 controllers will diminish performance.** *****

7. Click **Save New Settings** when finished.

Security Settings:

8. Passwords - Set the **User** Name and Password and the **Admin** User Name and Password. The User can change Communication Settings and the Admin can change Security and Communications Settings. Use the **Password Format** section at the bottom to set the complexity and length of both passwords. 6 to 19 keyboard characters. Select the attributes that must be part of the password. Be careful not to lock yourself out as the Module will have to ship to DSX to be reset.

The screenshot shows the 'Security Settings' page for 'DSX IP-HUB'. The 'Passwords' sub-tab is active. The form contains the following fields and options:

- User name: 123456
- Password: [masked]
- Repeat Password: [masked]
- Admin User name: master
- Admin Password: [masked]
- Repeat Admin Password: [masked]

The 'Password Format' section includes checkboxes for 'Upper', 'Lower', 'Special', and 'Numeric', all of which are currently unchecked. The 'Length' field is set to 6.

Mac: 00-08-96-11-00-03
Version: IP-HUB v7.5

8a. The User Password allows the changing of the Network Settings only.

Default is > User - 123456 Default Password - 123456

8b. The Admin Password allows the changing of the Security Settings and Network Settings.

Default is > Admin User - master Default Password - master

9a. The **Log Settings** allow for an optional IP Address and Port to be defined. Once defined The Module will send all Login attempts and notification of changes made to that Log address. Enter the IP Address and IP Port number to send the information. Do Not Use The Comm Server Address.

9b. Heartbeat-Enter the number of seconds that the Module will send a supervisory message to the Security Log IP Address. This continual heartbeat supervises the communication path.

The screenshot shows the 'Security Settings' page for 'DSX IP-HUB'. The 'Log Settings' sub-tab is active. The form contains the following fields:

- UDP Log Address: 0.0.0.0
- UDP Log Port: 0
- Heartbeat Frequency: 0

Mac: 00-08-96-11-00-03
Version: IP-HUB v7.5

10a. Enter the Time and Date if a Time Server is not available. Once you have entered the date and time click on **Set System Time** at the bottom. Once the time has been set manually do not power the Module down and up or unit will lose time settings.

Mac: 00-08-66-11-00-03
Version: IP-HUB v7.5

DSX IP-HUB Logout

Communication Settings Device Address Table Security Settings

Passwords Log Settings Time and Date Advanced

Daylight Savings Time:

Enable NTP:

System Time: 08:12:07 PM

System Date: 01/02/2000

Save Get Current Time Set System Time

10b. To use a Time Service Select Enable NTP and Set the UTC Time Zone. -6 for Central Time, -5 for Eastern Time, -7 for Mountain Time, and -8 for Pacific Time Enter the NTP Server IP Address.

11. Select Set System Time

Mac: 00-08-66-11-00-03
Version: IP-HUB v7.5

DSX IP-HUB Logout

Communication Settings Device Address Table Security Settings

Passwords Log Settings Time and Date Advanced

Daylight Savings Time:

Enable NTP:

UTC Timezone offset: -6

NTP server Address: time.google.com

System Time: 09:16:49 PM

System Date: 01/06/2000

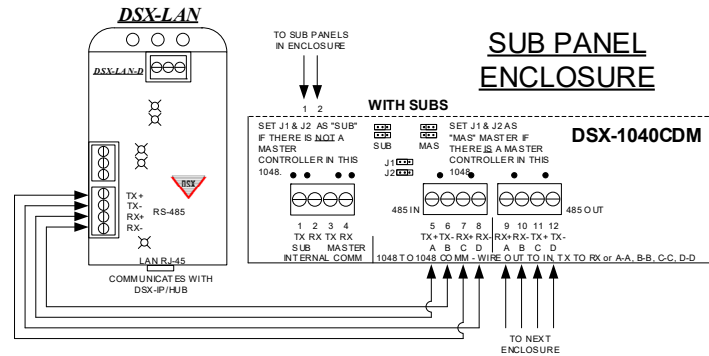
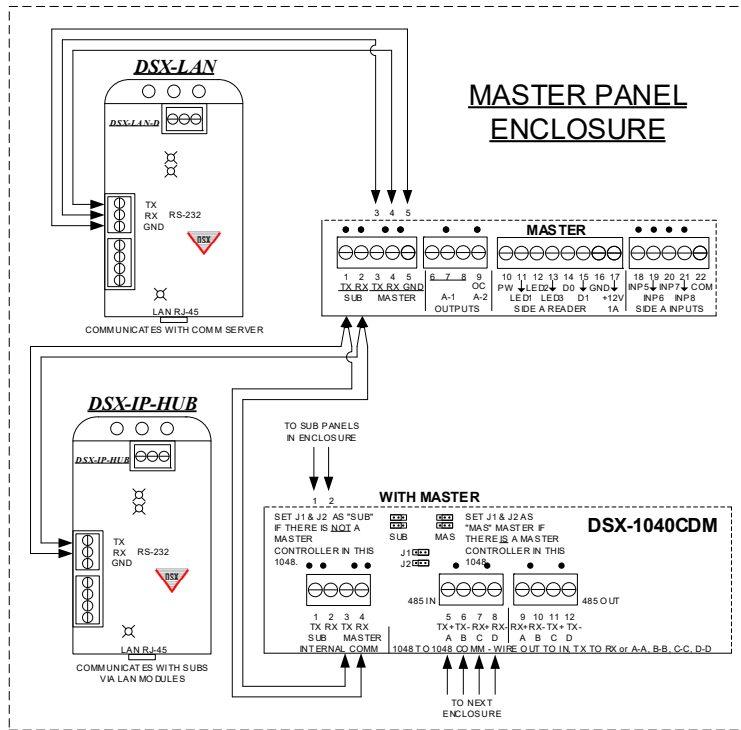
Save Get Current Time Set System Time

Example: Security Log Supervision Message.

2023-05-12 20:00:00 ; DEVICE:DSX_00-08-66-11-00-0A Heartbeat Frequency changed
 2023-05-12 19:00:30 : DEVICE:DSX_00-08-66-11-00-0A NTP IPAddress changed
 2023-05-12 08:32:38 : DEVICE:DSX_00-08-66-11-00-0A Admin logged in.
 2023-05-12 08:32:41 : DEVICE:DSX_00-08-66-11-00-0A HB
 2023-05-12 08:34:09 : DEVICE:DSX_00-08-66-11-00-0A HB

DSX-IP-HUB Wiring:

DSX-IP-HUB to 1040 Controllers



DSX-IP-HUB to 1022 Controllers

