

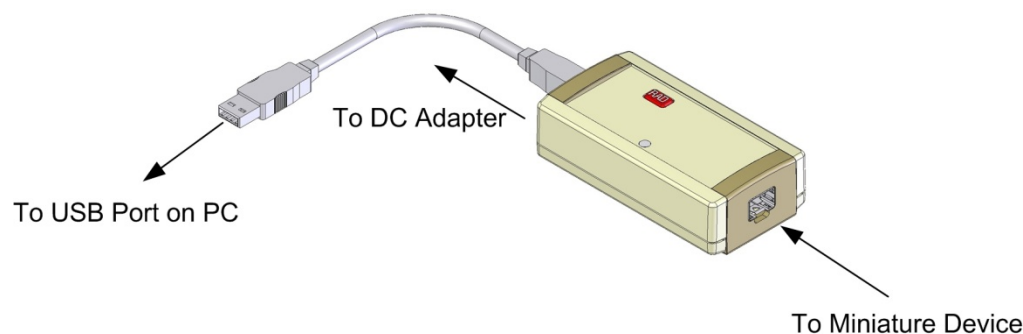
SFP-CA.2

Configuration Tool for Smart SFPs

SFP-CA.2 is an adapter that is used for configuration of miniature devices such as smart SFPs and MiNID. You can perform the following operations with the miniature device connected to your PC via the SFP-CA.2 unit:

- Assign a new IP address to the smart SFP/MiNID device (see Section 0)
- Configure the smart SFP/MiNID device (see Section 0)
- Download new software to the smart SFP/MiNID device (see Section 0)

This figure illustrates the SFP-CA.2 unit and its connections.



Note All SFP-CA.2 modules have the same MAC address (00-00-E8-00-00-01).

For SFP-CA.2 to work, you must use one of the following supported operating systems:

- Windows XP
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10

Note Both 32 bit and 64 bit operating systems are supported.

You must perform the following before you can use SFP-CA.2:

1. Install SFP-CA.2 driver (see [Installing Driver for SFP-CA.2](#))
2. Configure PC network parameters for communication with SFP-CA.2 (see [Configuring PC Network Parameters for Communication with SFP-CA.2](#))
3. Configure HyperTerminal parameters (only required for downloading software to the miniature device) (see [Configuring HyperTerminal Parameters](#)).

INSTALLING DRIVER FOR SFP-CA.2

Before you can use SFP-CA.2, you must install its driver.

► To install the SFP-CA.2 driver:

1. Click the SFP-CA.2 driver links below:



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- **USB UART drivers**
- **USB Ethernet drivers**

2. Log in to the site.

A dialog box is displayed requesting to save the file.

3. Click **Save**.

4. Open the **.zip** file to install the driver.

The SFP-CA.2 driver is installed in the background. No further action is required to install the driver.

CONFIGURING PC NETWORK PARAMETERS FOR COMMUNICATION WITH SFP-CA.2

You must configure the relevant network parameters of your PC to establish a communication link with SFP-CA.2 and the smart SFP/MiNID device.

Note

*Before performing this procedure, ensure that you have installed the SFP-CA.2 driver, as described in **Installing Driver for SFP-CA.2**.*

► To configure your PC for communication with SFP-CA.2 and smart SFP/MiNID device:

1. Connect power to the SFP-CA.2 unit with smart SFP/MiNID plugged in.

The **RDY** LED on SFP-CA.2 lights up. The smart SFP DIP switch must be in DB INIT\CONFIG or NORMAL mode.

2. Plug the USB connector of SFP-CA.2 into a USB port on your PC.

New Hardware is Detected notice appears. SFP-CA.2 is identified as a new network.

3. Navigate to **My Network Places(WinXP)/Network and Sharing Center(Win7/Win8)**.

A new network connection appears in the list of network connections.

The dialog box closes and your settings are applied.

4. Type in the network properties.

5. In the **Internet Protocol (TCP/IP)** field, configure the **IP address**, subnet mask and default gateway:

- **IP Address:** 192.168.205.20
- **Subnet Mask:** 255.255.255.0
- **Default Gateway:** 192.168.205.1

6. Click **OK**.

7. Close **My Network Places**.

The PC communication link with SFP-CA.2 and the miniature device is ready.

CONFIGURING HYPERTERMINAL PARAMETERS

You must establish a HyperTerminal connection, including configuring the serial (COM) port, in order to use the HyperTerminal application to download software to the smart SFP/MiNID device.

Note

- *Before performing this procedure, ensure that you have installed the SFP-CA.2 driver and configured the PC network parameters, as described in **Installing Driver for SFP-CA.2** and **Configuring PC Network Parameters for Communication with SFP-CA.2**.*
- *Do not connect the smart SFP/MiNID device to SFP-CA.2 during this procedure.*

► To configure the HyperTerminal parameters:

1. If the SFP-CA.2 unit is not connected to your PC, connect power to SFP-CA.2 and plug the USB connector of SFP-CA.2 into a USB port on your PC.

2. Open the HyperTerminal application.

The **Connection Description** dialog box for a new connection appears.

3. Specify a name for the HyperTerminal connection, and click **OK**.

The **Connect To** dialog box appears.

4. Choose a virtual COM port, for example **COM8**, and click **OK**.

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The COM Properties dialog box appears.

5. Specify the settings as listed below and then click **OK**.

- Bits Per Second: 115200
- Data Bits: 8
- Parity: None
- Stop Bits: 1
- Flow Control: None.

6. Click **Properties**.

The **Connection Properties** dialog box appears.

7. Select the Settings tab and under **Emulation**, choose **VT100**, and then click **OK**.

The COM port configuration is complete, and the HyperTerminal connection is ready for use.

8. Close the HyperTerminal application.

ASSIGNING A NEW IP ADDRESS TO SMART SFPs/MiNID

You can configure the smart SFP/MiNID via SFP-CA.2, including assigning it a new IP address.

Note

*Before performing this procedure, ensure that you have installed the SFP-CA.2 driver and configured the PC network parameters, as described in **Installing Driver for SFP-CA.2** and **Configuring PC Network Parameters for Communication with SFP-CA.2**.*

➤ To assign a new IP address to smart SFP/MiNID:

1. Select Configuration operation mode in the smart SFP/MiNID by setting its DIP switches as needed. Refer to the smart SFP/MiNID documentation for details on setting the operation mode.
2. If the SFP-CA.2 unit is not connected to your PC, connect power to SFP-CA.2 and plug the USB connector of SFP-CA.2 into a USB port on your PC.
3. Plug the smart SFP/MiNID into the SFP socket on the opposite side of the SFP-CA.2 unit.
The smart SFP/MiNID is ready for configuration.
4. Open the Web browser on your PC and type **http://192.168.205.1** into the Web browser's address field.
The Opening screen appears.
5. Click **Login**.
The Login screen appears.
6. Enter the default user name **su** and the default password **1234** for Superuser access, and then click **Submit**.
A menu appears to the left and you are able to configure smart SFP/MiNID.
7. Use the menus of the smart SFP/MiNID to assign a new IP address. You may continue specifying additional parameters or connect to the smart SFP/MiNID from any PC on your network at a later stage, using the newly assigned IP address.

Note

When Configuration mode is selected in smart SFP/MiNID via the DIP switches, the miniature device responds to only the default IP address 192.168.205.1, even if the device's IP address has been changed.

DOWNLOADING SOFTWARE TO SMART SFP/MiNID

You can upgrade the smart SFP/MiNID software by downloading software via SFP-CA.2. The HyperTerminal application is used for the software download.

Note

*Before performing this procedure, ensure that you have installed the SFP-CA.2 driver, configured the PC network parameters, and configured the HyperTerminal parameters, as described in **Installing Driver for SFP-CA.2**, **Configuring PC Network Parameters for Communication with SFP-CA.2**, and **Configuring HyperTerminal Parameters**.*

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► To download software to smart SFP/MiNID:

1. Verify that the upgrade image file is accessible from your PC.
2. Select SW Download (SW DNLD) mode in the smart SFP/MiNID by setting its DIP switches as needed. Refer to the smart SFP/MiNID documentation for details on setting the operation mode.
3. If the SFP-CA.2 unit is not connected to your PC, connect power to SFP-CA.2 and plug the USB connector of SFP-CA.2 into a USB port on your PC.
4. Plug the miniature device into the SFP socket on the SFP-CA.2 unit.
5. Open the HyperTerminal application and load the HyperTerminal connection that you established previously (refer to **Configuring HyperTerminal Parameters**).
6. Follow the smart SFP/MiNID device procedure for downloading software. Refer to the smart SFP/MiNID documentation for details.

REMOVING SMART SFP/MiNID AND SFP-CA.2 FROM PC

► To remove smart SFP/MiNID and SFP-CA.2 from the PC:

1. Close all relevant management applications.
2. On your operation system, allocate the remove hardware icon.
3. Select the required USB port from the listed devices and click **Stop**.

Note

If you disconnect the smart SFP/MiNID and/or SFP-CA.2 before releasing it as described, your PC may stop responding.

4. Push the release button at the front of the smart SFP/MiNID device to disconnect it from SFP-CA.2.
5. Remove the smart SFP/MiNID from the SFP socket on SFP-CA.2.
6. Disconnect SFP-CA.2 from the PC and from the power.

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