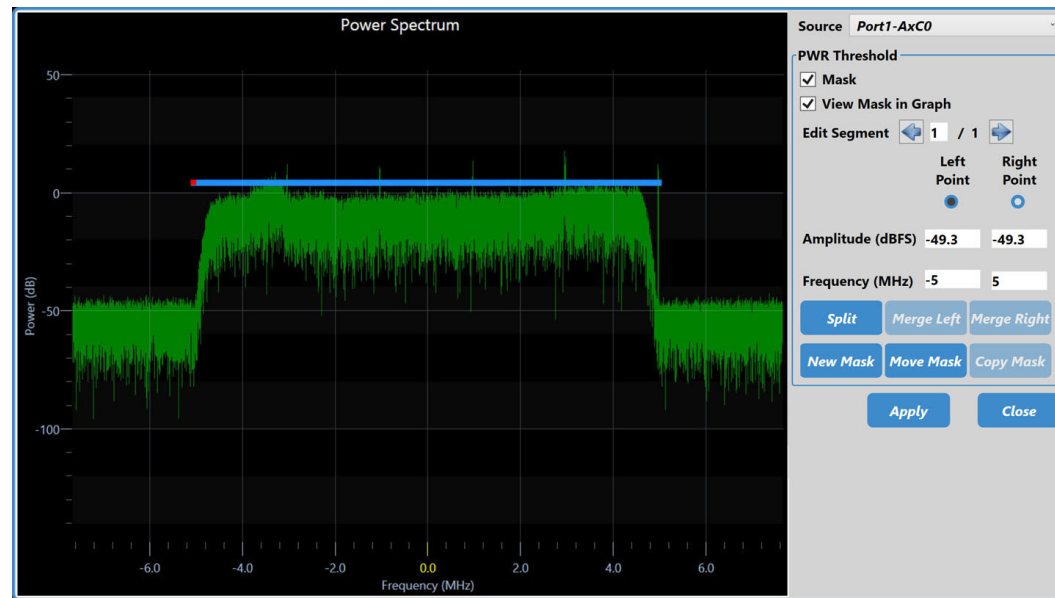
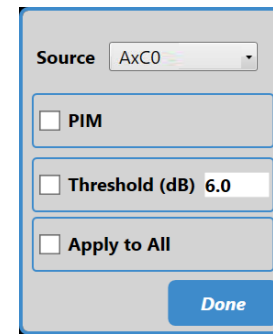


## Configuring Power Threshold



- **Mask** check box when selected (cleared by default) enables and allows the configuration of the mask alarm threshold.
- **View Mask in Graph** check box when selected (cleared by default) displays the defined mask on the graph of the selected source.
- **Edit Segment** allows choosing the mask segment for editing by either using the left and right arrows or directly selecting the segment. The chosen segment is highlighted in blue.
- **Left Point** selects the left-end point (highlighted in red) of the chosen segment for amplitude and frequency adjustments. Clicking on the left amplitude or frequency field automatically selects the **Left Point**.
- **Right Point** selects the right-end point (highlighted in red) of the chosen segment for amplitude and frequency adjustments. Clicking on the right amplitude or frequency field automatically selects the **Right Point**.
- **Amplitude (dB or dBFS)** adjusts the left or right amplitude point of the chosen segment by either entering the amplitude value or using the slider to increase or decrease the amplitude value.
- **Frequency (MHz)** adjusts the left or right frequency point of the chosen segment by either entering the amplitude value or using the slider to increase or decrease the amplitude value.
- **Split** creates a new segment by splitting the chosen segment in two.
- **Merge Left** combines the chosen segment with the one to the left.
- **Merge Right** combines the chosen segment with the one to the right.
- **New Mask** restores the mask to its default settings with the ability to select the number of segments to be used.
- **Move Mask** allows moving the mask on the graph. Use the arrow keys to respectively move the mask up, down, left, or right.
- **Copy Mask** creates a mask based on another monitored source mask while adapting the calibration and center frequency to the target source configuration parameters.
- **Apply** applies the mask parameter changes for the selected source; the pop-up remains open.
- **Close** closes the pop-up; a confirmation is required when changes were made.

## Configuring PIM Threshold

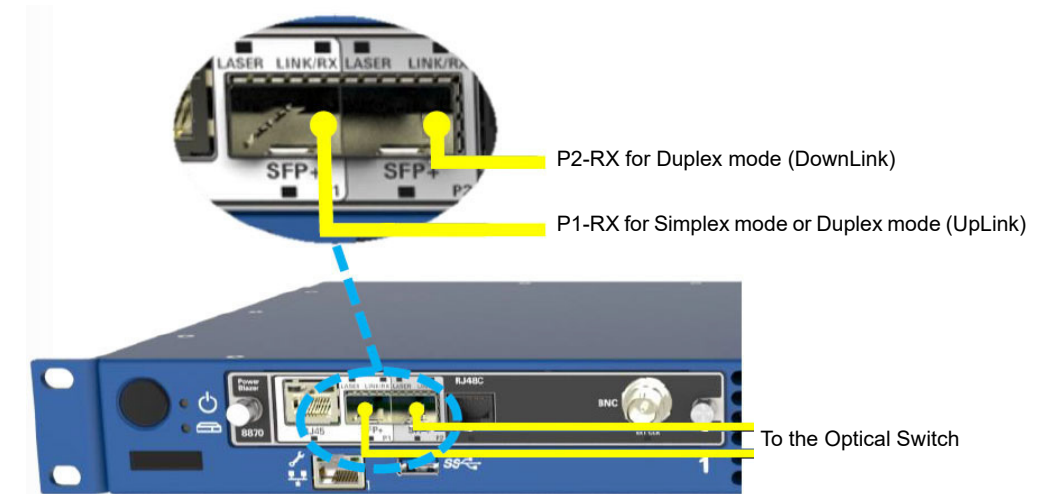


- **Source** allows selecting a source **AxC** for PIM measurement configuration. Not available when the **Apply to All** check box is selected since all settings apply to all sources.
- **PIM** (Passive Inter Modulation) check box when selected measures the PIM value.
- **Threshold (dB)** check box when selected enables the PIM pass/fail verdict for the configured absolute threshold value.
- **Apply to All** check box when selected applies the PIM and Threshold settings to all active trace overlays.
- **Done** closes the pop-up menu.

## Connecting to the RAN

For simplex mode the module's SFP+ P1 port is used to connect to the RAN (Radio Access Network). For duplex mode the module's SFP+ P1 and P2 ports are respectively used to connect to the RAN for the UpLink and DownLink. Supported rates are: CPRI 1.2, 2.4, 3.1, 4.9, 6.1, and 9.8 Gbit/s.

**Note:** Make sure to insert the proper SFP/SFP+ and carefully connect the optical fiber cable to the transceiver IN (RX) of port P1/P2.



## Starting the OpticalRF Application

From the SkyRAN Element Management System (EMS), request an OpticalRF interactive session.

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Printed in Canada (2018-10)  
P/N: 1074443 Version: 3.0.0.1



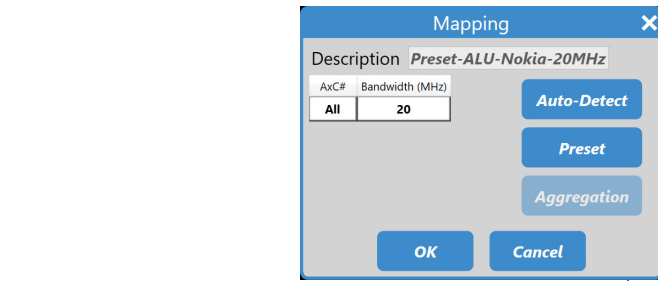
**EXFO**  
EXPERTISE REACHING OUT

For more information,  
refer to the user guide.

**EXFO**  
EXPERTISE REACHING OUT

# Monitoring Configuration

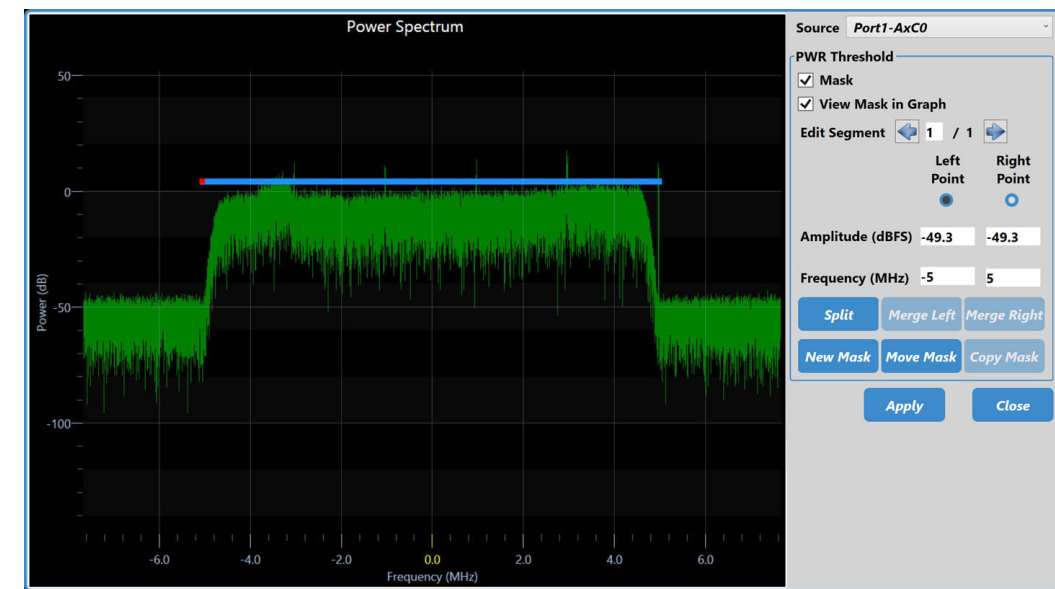
This procedure describes the activation and configuration of up to 32 antennas (AxC) for monitoring in simplex mode on Port1 and in duplex mode on Port1 UpLink. In addition, duplex mode allows configuring up to 32 antennas (AxC) on Port2 DownLink.



- 2 Select the mapping.
- 1 Select the CPRI link rate and make sure the link is Active.
- 6 For each AxC set the center frequency of the power spectrum being displayed.
- 7 If required, for each AxC, set the resolution bandwidth of the power spectrum being displayed.
- 8 If required, for each AxC, set the video bandwidth of the power spectrum being displayed.

9 For each AxC click **Source > Calibrate** and set the dBm scale value to accurately reflect the power of the power spectrum being displayed.

Click Measures > RF-PWR 10



11 For each AxC configure the power threshold mask. See back page for more information.

Monitored	Name	AxC	Undo
<input checked="" type="checkbox"/>	AxC0	0	
<input checked="" type="checkbox"/>	AxC1	1	
<input checked="" type="checkbox"/>	AxC2	2	
<input checked="" type="checkbox"/>	AxC3	3	
<input checked="" type="checkbox"/>	AxC4	4	
<input checked="" type="checkbox"/>	AxC5	5	
<input checked="" type="checkbox"/>	AxC6	6	
<input checked="" type="checkbox"/>	AxC7	7	

14 Click **Export** to save and send the new monitoring configuration to the SkyRAN Element Management System (EMS).

5 Click over an AxC to select it. The power spectrum is displayed and its configuration is possible.

4 If desired, for each AxC, click to rename the antenna's name.

3 For each AxC, select the **Monitored** check box for each AxC to be monitored.

12 Click **Measures > PIM**

13 For each AxC configure the PIM threshold value. See back page for more information.

