

PTP820 Installation Wizard

Q2 2017



Cambium Networks™

Installation Wizard

The installation wizards provide you step by step to establish a working pipe link.

Logout ✓ Connection Admin

Filter []

Main View

- Platform
- Faults
- TDM
- Radio
- Ethernet
- Cascading
- Sync
- Quick Configuration
 - PIPE
 - Single Carrier
 - 1 + 0**
 - 1 + 0 (Repeater)
 - 1 + 1 (HSB)
 - Multi Carrier ABC
 - Utilities

Microwave radio: Link Setup (PIPE) 1 + 0

Link Setup Progress



Radio Interface
 Ethernet Interface

Select one Ethernet and one radio interface, then select the PIPE type.
To select an interface, click the interface in the picture above or select from the selection boxes below.

Interface Selection (1 + 0)

Ethernet Interface

Radio Interface

PIPE Type

Note: Currently your TDM standard is set to "ETSI".
If you need to change the standard, make sure to change it before using this wizard.

1 Interfaces



2 Radio



3 MRMC



4 Management



5 Submit



Supported Pipe Configuration

- The installation wizards provide you step by step to establish a working pipe link.
 - Single Carrier
 - 1+0 with Pipe services (PTP820 S/C/G)
 - 1+0 Repeater links with Pipe services (PTP 820C/G)
 - 1+1 HSB and Pipe services (PTP820G only)
 - Multi Carrier
 - 2+0 MC-ABC (PTP820 C/G only)
 - 1+1 HSB with SD and Pipe services (PTP820G only)
 - TDM services and Pseudowire services (PTP820G Only)

Single Carrier 1+0

Step 1 - Interface

The screenshot shows the 'Link Setup (PIPE) 1 + 0' configuration page. On the left is a navigation menu with options like Platform, Faults, Radio, Ethernet, Sync, Quick Configuration, and Utilities. The 'Quick Configuration' section is expanded to show 'PIPE' and 'Single Carrier', with '1 + 0' selected. The main area shows a progress bar at 0% and an information box: 'Select one Ethernet and one radio interface, then select the PIPE type.' Below this, the 'Interface Selection, 1 + 0' section contains three dropdown menus: 'Ethernet Interface' (set to 'Ethernet: Slot 1, Port 1 (LAG: Group #1)'), 'Radio interface' (set to 'Radio: Slot 2, Port 1'), and 'PIPE Type' (set to 'dot1q'). A 'Create LAG' button is next to the Ethernet dropdown. At the bottom are navigation buttons: '<< Back', 'Next >>', and 'Finish'.

- **Ethernet Interface** → select an Ethernet interface for the link.
- **Radio Interface** → select a radio interface for the link.
- **PIPE Type** → select the type of service that will connect the radio and Ethernet interfaces.
 - **s-tag** All S-VLANs and untagged frames are classified into the service.
 - **dot1q** All C-VLANs and untagged frames are classified into the service

Step 2 - Radio

Logout ✓ Connection Admin

Filter [x]

[Main View](#)

- Platform
- Faults
- Radio
- Ethernet
- Sync
- Quick Configuration
 - PIPE
 - Single Carrier
 - 1 + 0**
 - 1 + 0 (Repeater)
 - Multi Carrier ABC
- Utilities

Link Setup (PIPE) 1 + 0

Link Setup Progress 30%

i Enter the radio interface parameters.

Radio Parameters Configuration - Radio: Slot 2, Port 1, 1 + 0

TX Frequency (MHz) (0..214748.364)

RX Frequency (MHz) (0..214748.364)

TX Level (dBm) ▾

TX Mute ▾

<< Back Next >> Finish

- **TX Frequency (MHz)** → set the transmission radio frequency
- **RX Frequency (MHz)** → set the received radio frequency
- **TX Level (dBm)** → set the desired TX signal level (TSL)
- **TX Mute** → set TX output of the RFU
 - On – Mute
 - Off – Unmute

Step 3 – MRMC Script

The screenshot shows the 'Link Setup (PIPE) 1 + 0' configuration page. The left sidebar contains a navigation tree with 'Quick Configuration' > 'PIPE' > '1 + 0' selected. The main content area shows a 'Link Setup Progress' bar at 50%. Below it is an information box: 'Select an MRMC script and profile.' The configuration section is titled 'Radio MRMC Script Configuration - Radio: Slot 2, Port 1, 1 + 0'. It includes the following fields:

- Script ID: Script: 1507, XPIC, BW:40 MHz, OBW:37.4 MHz, 58.224-349.341 Mbps, ETSI+FCC, ACCP
- Operational Mode: Adaptive
- Maximum profile: Profile: 10, 2048 QAM, 349.341 Mbps
- Minimum profile: Profile: 0, 4 QAM, 58.224 Mbps

Navigation buttons at the bottom are '<< Back', 'Next >>', and 'Finish'.

- **Script ID** → set the MRMC script
- **Operational Mode** → set the modulation mode
 - **Fixed** : the next field is “Profile”
 - **Adaptive**: the next field is “Maximum Profile” and “Minimum Profile”

Step 4 - Management

Logout ✓ Connection Admin

Filter []

[Main View](#)

- Platform
- Faults
- Radio
- Ethernet
- Sync
- Quick Configuration
 - PIPE
 - Single Carrier
 - 1 + 0**
 - 1 + 0 (Repeater)
 - Multi Carrier ABC
- Utilities

Link Setup (PIPE) 1 + 0

Link Setup Progress 75%

i To configure In Band management, choose 'Yes'
If you choose 'Yes', you will need to select a Management VLAN.

Management Configuration, 1 + 0

In Band Management Yes ▾

Management VLAN 1 ▾

In Band includes Ethernet interface

<< Back Next >> Finish

- **In Band Management**

- If selected “**Yes**”, select the management VLAN in the “**Management VLAN**” field.
- If want to use the Ethernet interface as well as the radio interface for in-band management, select “**In Band includes Ethernet interface**”.

Step 5 - Submit

The screenshot shows the 'Link Setup (PIPE) 1 + 0' configuration page. The left sidebar contains a navigation menu with options like Platform, Faults, Radio, Ethernet, Sync, Quick Configuration, PIPE (selected), Single Carrier, 1 + 0 (selected), 1 + 0 (Repeater), Multi Carrier ABC, and Utilities. The main content area displays the configuration progress at 100% and lists the selected parameters: Radio interface: Radio: Slot 2, Port 1; TX Frequency: 6400 MHz, RX Frequency: 6150 MHz; TX Level (dBm): 5 TX Mute: Off; MRMC Script ID: 1507, Operational Mode: Adaptive, Maximum profile: 10, Minimum profile: 0; Ethernet Interface: LAG: Group #1; PIPE Type: dot1q; In Band Management: Yes, Management VLAN: 1, Ethernet included: No. A warning box states: 'Warning: After you click Submit, the system will be configured with these parameters and the interfaces will be reset. Traffic will be affected.' At the bottom, there are three buttons: '<< Back', 'Next >>', and 'Submit'.

- To complete configuration of the link, click **Submit**. If you want to go back and change any of the parameters, click **Back**.
- After **submit**, the unit is reset

Multi Carrier 2+0 MC-ABC

Step 1 - Interface

Logout ✓ Connection Admin

Filter

[Main View](#)

- Platform
- Faults
- Radio
- Ethernet
- Sync
- Quick Configuration
 - Link Setup (PIPE)
 - [1 + 0](#)
 - [1 + 0 \(Repeater\)](#)
 - Multi Carrier ABC
 - [2 + 0](#)
- Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

Select one Ethernet and one radio interface. Then select the total number of radio interfaces in the ABC group and the PIPE type. The selected radio interface will be the first radio in the ABC group. In the next step(s) you will select the other interfaces.

Interface Selection (2 + 0 ABC)

Ethernet Interface

Radio #1 Interface

Number of Radio interfaces

PIPE Type

- **Ethernet Interface** → select an Ethernet interface for the link.
- **Radio Interface** → select a radio interface for the link.
- **PIPE Type** → select the type of service that will connect the radio and Ethernet interfaces.
 - **s-tag** All S-VLANs and untagged frames are classified into the service.
 - **dot1q** All C-VLANs and untagged frames are classified into the service

Step 1 - Interface

Logout ✓ Connection Admin

Filter

[Main View](#)

- ▶ Platform
- ▶ Faults
- ▶ Radio
- ▶ Ethernet
- ▶ Sync
- ▲ Quick Configuration
 - ▲ Link Setup (PIPE)
 - [1 + 0](#)
 - [1 + 0 \(Repeater\)](#)
 - ▲ Multi Carrier ABC
 - [2 + 0](#)
- ▶ Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

Select the second radio.

Radio #2 selection (2 + 0 ABC)

Radio #2 Interface

- select the second radio interface for the group

Step 2 - Radio

The screenshot shows a web interface for configuring a radio link. The top navigation bar includes 'Logout', 'Connection', and 'Admin'. The left sidebar contains a 'Filter' box and a menu with options: 'Main View', 'Platform', 'Faults', 'Radio', 'Ethernet', 'Sync', 'Quick Configuration' (expanded), 'Link Setup (PIPE)' (expanded), '1 + 0', '1 + 0 (Repeater)', 'Multi Carrier ABC' (expanded), '2 + 0' (highlighted), and 'Utilities'. The main content area is titled 'Link Setup (PIPE) 2 + 0 Multi Carrier ABC'. It features an information box stating 'Select XPIC groups by checking the desired radio interfaces.' Below this is the 'Radio XPIC Configuration' section, which has a checked checkbox for 'XPIC - Radio: Slot 2, port 1 & Radio: Slot 2, port 2'. At the bottom of the configuration area are three buttons: '<< Back', 'Next >>', and 'Finish'.

- If you want to set up an XPIC configuration, select the radio pair

Step 2 - Radio For Non-XPIC Configuration

Logout ✓ Connection Admin

Filter

- [Main View](#)
- ▶ Platform
- ▶ Faults
- ▶ Radio
- ▶ Ethernet
- ▶ Sync
- ▲ Quick Configuration
 - ▶ Link Setup (PIPE)
 - [1 + 0](#)
 - [1 + 0 \(Repeater\)](#)
 - ▶ Multi Carrier ABC
 - [2 + 0](#)
 - ▶ Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

 Enter the radio parameters for the selected radio interfaces.

Radio Parameters Configuration - Radio: Slot 2, port 1 (2 + 0 ABC)

TX Frequency (MHz) (13002.000..13141.000)
RX Frequency (MHz) (12745.000..12866.000)
TX Level (dBm)
TX Mute

Radio Parameters Configuration - Radio: Slot 2, port 2 (2 + 0 ABC)

TX Frequency (MHz) (0..214748.364)
RX Frequency (MHz) (0..214748.364)
TX Level (dBm)
TX Mute

Step 2 - Radio For XPIC Configuration

Logout ✓ Connection Admin

Filter

[Main View](#)

- ▶ Platform
- ▶ Faults
- ▶ Radio
- ▶ Ethernet
- ▶ Sync
- ▲ Quick Configuration
 - ▲ Link Setup (PIPE)
 - [1 + 0](#)
 - [1 + 0 \(Repeater\)](#)
 - ▲ Multi Carrier ABC
 - [2 + 0](#)
- ▶ Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

 Enter the radio parameters for the selected radio interfaces.

Radio Parameters Configuration - XPIC: Radio: Slot 2, port 1 & Radio: Slot 2, port 2 (2 + 0 ABC)

TX Frequency (MHz) (13002.000..13141.000)

RX Frequency (MHz) (12745.000..12866.000)

TX Level (dBm) ▼

TX Mute ▼

Step 3 – MRMC Script For Non-XPIC Configuration

Logout ✓ Connection Admin

Filter

Main View

- Platform
- Faults
- Radio
- Ethernet
- Sync
- Quick Configuration
 - PIPE
 - Single Carrier
 - Multi Carrier ABC
 - 2 + 0**
- Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

Link Setup Progress 50%

Select an MRMC script and profile for the selected radio interfaces

Radio #1, Radio MRMC Script Configuration - Radio: Slot 2, Port 1, 2 + 0 ABC

Script ID Script: 1507, XPIC, BW:40 MHz, OBW:37.4 MHz, 58.224-349.341 Mbps, XPIC, ETSI+FCC, ACCP

Operational Mode Adaptive

Maximum profile Profile: 10, 2048 QAM, 349.341 Mbps

Minimum profile Profile: 0, 4 QAM, 58.224 Mbps

Radio #2, Radio MRMC Script Configuration - Radio: Slot 2, Port 2, 2 + 0 ABC

Script ID Script: 1507, XPIC, BW:40 MHz, OBW:37.4 MHz, 58.224-349.341 Mbps, XPIC, ETSI+FCC, ACCP

Operational Mode Adaptive

Maximum profile Profile: 10, 2048 QAM, 349.341 Mbps

Minimum profile Profile: 0, 4 QAM, 58.224 Mbps

<< Back Next >> Finish

- **Script ID** → set the MRMC script
- **Operational Mode** → set the modulation mode
 - **Fixed** : the next field is “Profile”
 - **Adaptive**: the next field is “Maximum Profile” and “Minimum Profile”

Step 3 – MRMC Script For XPIC Configuration

The screenshot shows the 'Link Setup (PIPE) 2 + 0 Multi Carrier ABC' configuration page. The left sidebar contains a navigation menu with 'Quick Configuration' expanded to 'PIPE' and 'Multi Carrier ABC' selected. The main content area shows a progress bar at 50% and an information box: 'Select an MRMC script and profile for the selected radio interfaces'. Below this, the configuration is for 'Radio MRMC Script Configuration - XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2, 2 + 0 ABC'. The fields are: Script ID (Script: 1507, XPIC, BW:40 MHz, OBW:37.4 MHz, 58.224-349.341 Mbps, XPIC, ETSI+FCC, ACCP), Operational Mode (Adaptive), Maximum profile (Profile: 10, 2048 QAM, 349.341 Mbps), and Minimum profile (Profile: 0, 4 QAM, 58.224 Mbps). Navigation buttons '<< Back', 'Next >>', and 'Finish' are at the bottom.

- **Script ID** → set the MRMC script
- **Operational Mode** → set the modulation mode
 - **Fixed** : the next field is “Profile”
 - **Adaptive**: the next field is “Maximum Profile” and “Minimum Profile”

Step 4 - Management

Logout ✓ Connection Admin

Filter []

[Main View](#)

- Platform
- Faults
- Radio
- Ethernet
- Sync
- Quick Configuration
 - PIPE
 - Single Carrier
 - Multi Carrier ABC
 - 2 + 0**
- Utilities

Link Setup (PIPE) 2 + 0 Multi Carrier ABC

Link Setup Progress 75%

i To configure In Band management, choose 'Yes'
If you choose 'Yes', you will need to select a Management VLAN.

Management Configuration, 2 + 0 ABC

In Band Management Yes ▼

Management VLAN ▼

In Band includes Ethernet interface

<< Back Next >> Finish

- **In Band Management**

- If selected “Yes”, select the management VLAN in the “**Management VLAN**” field.
- If want to use the Ethernet interface as well as the radio interface for in-band management, select “**In Band includes Ethernet interface**”.

Step 5 - Submit

The screenshot shows the configuration page for a link setup. The left sidebar contains a navigation menu with options like Platform, Faults, Radio, Ethernet, Sync, Quick Configuration, and Utilities. The main content area displays the link setup progress at 100% and lists the selected parameters: XPIC: Radio: Slot 2, Port 1 & Radio: Slot 2, Port 2; TX Frequency: 6400 MHz, RX Frequency: 6150 MHz; TX Level (dBm): 5 TX Mute: Off; MRMC Script ID: 1507, Operational Mode: Adaptive, Maximum profile: 10, Minimum profile: 0; Ethernet Interface: LAG: Group #1; PIPE Type: dot1q; In Band Management: Yes, Management VLAN: 1, Ethernet included: No. A warning box states: 'Warning: After you click Submit, the system will be configured with these parameters and the interfaces will be reset. Traffic will be affected.' At the bottom, there are three buttons: '<< Back', 'Next >>', and 'Submit'.

- To complete configuration of the link, click **Submit**. If you want to go back and change any of the parameters, click **Back**.
- After **submit**, the unit is reset

Thank you

