

## Cisco Small Form-Factor Pluggable Ethernet-to-T3 Remote Bridge

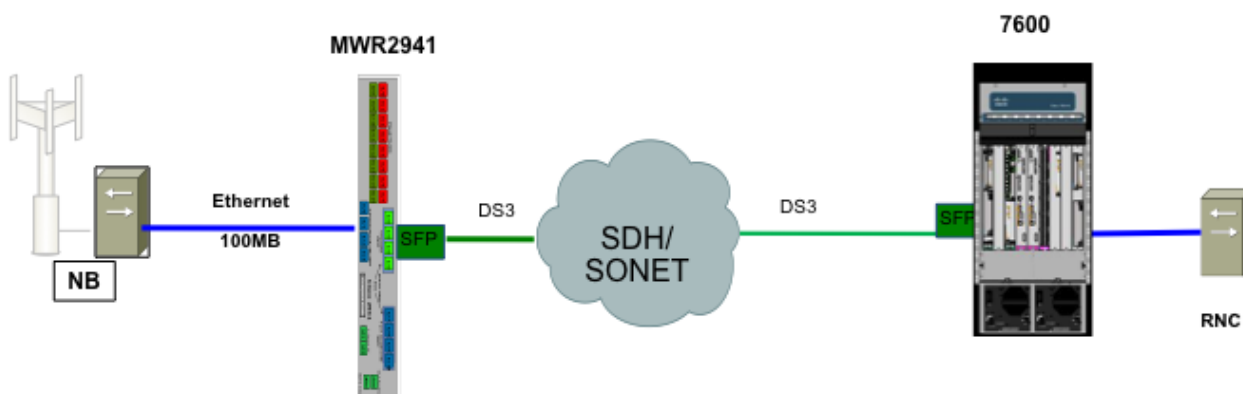
### Product Overview

The Cisco® Small Form-Factor Pluggable (SFP) Ethernet-to-T3 Remote Bridge forwards Gigabit Ethernet packets to a WAN based on time-division multiplexing (TDM) at full-duplex T3 wire speed, fully using the expensive T3 TDM bandwidth to take advantage of existing DS3 linkage to provide an end-to-end Radio Access Network (RAN) backhaul solution.

SFP remote bridge applications include the following (Figure 1):

- Transparent LAN services over leased lines
- Remote branch-office connectivity over T3 lines
- Connection of LANs over T3 radio links or in campus applications

**Figure 1.** Cisco SFP Ethernet-to-T3 Remote Bridge Applications



### Features and Benefits

- Supports standard generic framing procedure (GFP), High-Level Data Link Control (HDLC), and Cisco HDLC (cHDLC) encapsulation protocols
- Provides T3 connectivity to Ethernet
- Provides full-duplex, T3 wire-speed packet forwarding
- Supports 64- to 10,000-byte frame sizes for Gigabit Ethernet, including VLAN-tagged frames
- Transparently directs LAN traffic

Table 1 summarizes the main features and their specifications.

**Table 1.** Features

Feature	Specification
<b>WAN Interface</b>	
Number of ports	1, configurable as T3
Transmit clock	Receive or internal clock
Data rate	44.736 Mbps
Framing	Framed (C-bit, M23), unframed
Line impedance	75 ohms, unbalanced
Cable length (maximum 22 AWG wire)	Up to 900 ft (275m)
<b>LAN Interface</b>	
Type	Gigabit Ethernet port
Compliance	IEEE 802.3
Edge connector	SFP-based, multi-source agreement (MSA)-compliant

The SFP remote bridge is supported on the Ethernet Services Plus (ES+) line cards shown in Table 2.

**Table 2.** Platform Support

Part Number	Description
7600-ES+20G3C	7600 ES+ Line Card, 20xGE SFP with DFC 3C
7600-ES+20G3CXL	7600 ES+ Line Card, 20xGE SFP with DFC 3CXL
7600-ES+40G3C	7600 ES+ Line Card, 40xGE SFP with DFC 3C
7600-ES+40G3CXL	7600 ES+ Line Card, 40xGE SFP with DFC 3CXL
76-ES+T-40G	ES+ Low Queue 40 port GE - 3CXL
76-ES+T-20G	ES+ Low Queue 20 port GE - 3CXL
76-ES+XC-40G3C	7600 ES+XC Combo 20x1GE/ 2x10GE, DFC3C
76-ES+XC-40G3CXL	7600 ES+XC Combo 20x1GE/ 2x10GE, DFC3CXL
76-ES+XC-20G3CXL	7600 ES+XC Combo 10x1GE/ 1x10GE, DFC3CXL
76-ES+XC-20G3C	7600 ES+XC Combo 10x1GE/ 1x10GE, DFC3C

## Product Specifications

Table 3 shows the SPF remote bridge product specifications.

**Table 3.** Product Specifications

Description	Specification
Protocols	<ul style="list-style-type: none"> <li>GFP (G.8040 and G.7041/Y.1303)</li> <li>HDLC</li> <li>cHDLC</li> </ul>
Physical dimensions (HxWxD)	<ul style="list-style-type: none"> <li>Height: 12.4 mm (0.49 in.)</li> <li>Width: 14 mm (0.55 in.)</li> <li>Depth: 79 mm (3.11 in.)</li> <li>Weight: 15.0 g (0.5 oz)</li> </ul>
Power	3.3V and 1.25W
Temperature range	<ul style="list-style-type: none"> <li>Temperature: -40 to 172°F (-40 to 78°C)</li> <li>Humidity: Up to 90%, noncondensing</li> </ul>
Approvals and compliance	GR-499-CORE, T1.107, T1.404, G.703, G.704, G.775, and G.824

## System Requirements

The SPF remote bridge requires ES+ line cards and Cisco IOS® Software Release 15.1(1)S and later for Cisco 7600 Series Routers.

## Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

## Ordering Information

To place an order, visit the [Cisco Ordering homepage](#). To download software, visit the [Cisco Software Center](#). Table 4 lists the ordering information.

**Table 4.** Ordering Information

Part Number	Product Name
CISCO-SFP-T3-GE=	Cisco SFP Ethernet to T3 Remote Bridge

## Cisco Services

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## For More Information

For more information about the Cisco SFP Ethernet-to-T3 Remote Bridge, visit <http://www.cisco.com/> or contact your local account representative.



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