



APPENDIX B

Card Types

This appendix provides a list of interface and card types supported in Cisco TransportPlanner, as well as the corresponding Cisco product ID (Tables B-1 to B-29).



Note

The card names in this appendix designated with “_C” or “_L” appear in Cisco TransportPlanner with a “_y” designation before network analysis. The “_y” designation indicates that Cisco TransportPlanner will use either a C- or L-band card, depending on the band selected during project creation.

Table B-1 OC-192/STM-64 (9.953 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with EFEC ¹	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with FEC ²	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L without FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with EFEC	Client 1+1	15454-10E-L1-xx.y= (C band)
		Y-Cable	15454-10E-L1-xx.y= (L band)
Transponder	TXP_MR_10E with FEC	Client 1+1	15454-10E-L1-xx.y= (C band)
		Y-Cable	15454-10E-L1-xx.y= (L band)
Transponder	TXP_MR_10E without FEC	Client 1+1	15454-10E-L1-xx.y= (C band)
		Y-Cable	15454-10E-L1-xx.y= (L band)
Transponder	TXP_MR_10G with FEC	Client 1+1	15454-10T-L1-xx.y=
		Y-Cable	
Transponder	TXP_MR_10G without FEC	Client 1+1	15454-10T-L1-xx.y=
		Y-Cable	
Line Card	OC-192 LR	Client 1+1	15454-192L-1-xx.y= (ANSI)
	STM-64 LR		15454E-64L-xx.y= (ETSI)

1. Enhanced forward error correction.
2. Forward error correction.

Table B-2 OC-48/STM-16 (2.488 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	MXP_2.5_10E_C and MXP_2.5_10E_L with EFEC	Client 1+1	15454-10ME-L1-C= (C band)
		Y-Cable	15454-10ME-L1-L= (L band)
Transponder	MXP_2.5_10E_C and MXP_2.5_10E_L with FEC	Client 1+1	15454-10ME-L1-C= (C band)
		Y-Cable	15454-10ME-L1-L= (L band)
Transponder	MXP_2.5_10E with EFEC	Client 1+1	15454-10ME-xx.y=
		Y-Cable	
Transponder	MXP_2.5_10ET with FEC	Client 1+1	15454-10ME-xx.y=
		Y-Cable	
Transponder	MXP_2.5_10G with FEC	Client 1+1	15454-10M-L1-xx.y=
		Y-Cable	
Transponder	MXP_2.5_10G without FEC	Client 1+1	15454-10M-L1-xx.y=
		Y-Cable	
Line Card	OC48ELR / SMT-16ELR	Client 1+1	15454-O48E-1-xx.y (ANSI)
			15454E-EL16HSxyy= (ETSI)
Transponder	ADM-10G	Client 1+1	15454-ADM-10G = (Unprot)
		Y-Cable	15454-ADM-10G = (Prot)
		Fiber-Switched	

Table B-3 *OC-12/STM-4 (622 Mbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	ADM-10G	Client 1+1	15454-ADM-10G = (Unprot)
		Y-Cable	15454-ADM-10G = (Prot)
		Fiber-Switched	

Table B-4 *OC-3/STM-1 (155 Mbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	ADM-10G	Client 1+1	15454-ADM-10G = (Unprot)
		Y-Cable	15454-ADM-10G = (Prot)
		Fiber-Switched	

Table B-5 *10 Gigabit Ethernet Wide Area Network ATM Physical Layer (10GE WAN PHY) (9.953 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with EFEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L without FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with EFEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)

Table B-5 10 Gigabit Ethernet Wide Area Network ATM Physical Layer (10GE WAN PHY) (9.953 Gbps) (continued)

Transponder	TXP_MR_10E with FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E without FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10G with FEC	Client 1+1 Y-Cable	15454-10T-L1-xx.y=
Transponder	TXP_MR_10G without FEC	Client 1+1 Y-Cable	15454-10T-L1-xx.y=

Table B-6 10 Gigabit Ethernet Local Area Network ATM Physical Layer (10GE LAN PHY)(10.3 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with EFEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L without FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with EFEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E without FEC	Client 1+1 Y-Cable	15454-10E-L1-C= (C band) 15454-10E-L1-L= (L band)
Transponder	TXP_MR_10G with FEC	Client 1+1 Y-Cable	15454-10T-L1-xx.y=
Transponder	TXP_MR_10G without FEC	Client 1+1 Y-Cable	15454-10T-L1-xx.y=
Transponder	10GE_XP with point-to-point traffic demand XFPs with Ethernet aggregated traffic demand	Client 1+1 Y-Cable	15454-10GE-XP = (Unprot) 15454-10GE-XP = (Prot)

Table B-7 Gigabit Ethernet (1.25Gbps)

Interface Type	Card Type	Protection Type	Product ID	
Transponder	MXP_MR_2.5G	Client 1+1	15454-DM-L1-xx.y= (Unprot)	
	MXPP_MR_2.5G	Y-Cable	15454-DMP-L1-xx.y= (Prot)	
		Fiber-Switched		
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)	
		Y-Cable	15454-10DME-L= (L band)	
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)	
		Y-Cable	15454-10DME-L= (L band)	
Transponder	MXP_MR_10DME without FEC	Client 1+1	15454-10DME-C= (C band)	
		Y-Cable	15454-10DME-L= (L band)	
Transponder	TXP_MR_2.5G	Client 1+1	15454-MR-L1-xx.y= (Unprot)	
		TXPP_MR_2.5G with FEC	Y-Cable	15454-MRP-L1-xx.y= (Prot)
			Fiber-Switched	
Transponder	TXP_MR_2.5G	Client 1+1	15454-MR-L1-xx.y= (Unprot)	
		TXPP_MR_2.5G without FEC	Y-Cable	15454-MRP-L1-xx.y= (Prot)
			Fiber-Switched	
Pluggable	GE DWDM GBIC	Client 1+1	15454-GBIC-xx.y=	
Transponder	GE_XP with point-to-point traffic demand configured on CTC as 10GE MXP GE XP-O with point to point traffic demand and if configured on Cisco Transport Controller (CTC) as 20GE MXP XFPs with Ethernet aggregated traffic demand	Client 1+1	15454-GE-XP = (Unprot)	
		Y-Cable	15454-GE-XP = (Prot)	
		Fiber-Switched		
Transponder	ADM-10G	Client 1+1	15454-ADM-10G = (Unprot)	
		Y-Cable	15454-ADM-10G = (Prot)	
		Fiber-Switched		

Table B-8 Fast Ethernet (100 Mbps)

Interface Type	Card Type	Protection Type	Product ID	
Transponder	TXP_MR_2.5G	Client 1+1	15454-MR-L1-xx.y= (Unprot)	
		TXPP_MR_2.5G 2R	Y-Cable	15454-MRP-L1-xx.y= (Prot)
			Fiber-Switched	

Table B-9 *Fiber Channel 10G (10.5 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with EFEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L with FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E_C and TXP_MR_10E_L without FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with EFEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E with FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E without FEC	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)
Transponder	TXP_MR_10E TXP_MR_10E_y	Client 1+1	15454-10E-L1-C= (C band)
		Y-Cable	15454-10E-L1-L= (L band)

Table B-10 *Fiber Channel 4G (4.25 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)

Table B-11 *Fiber Channel 2G (2.125 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_2.5G MXPP_MR_2.5G	Client 1+1	15454-DM-L1-xx.y= (Unprot)
		Y-Cable	15454-DMP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)

Table B-11 *Fiber Channel 2G (2.125 Gbps) (continued)*

Transponder	MXP_MR_10DME without FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)

Table B-12 *Fiber Channel 1G (1.062 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_2.5G MXPP_MR_2.5G	Client 1+1 Y-Cable Fiber-Switched	15454-DM-L1-xx.y= (Unprot) 15454-DMP-L1-xx.y= (Prot)
Transponder	MXP_MR_10DME with EFEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)

Table B-13 *2 Gbps Fiber Connectivity (2.125 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_2.5G MXPP_MR_2.5G	Client 1+1 Y-Cable Fiber-Switched	15454-DM-L1-xx.y= (Unprot) 15454-DMP-L1-xx.y= (Prot)
Transponder	MXP_MR_10DME with EFEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)

Table B-13 2 Gbps Fiber Connectivity (2.125 Gbps) (continued)

Transponder	MXP_MR_10DME with FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)

Table B-14 FICON-1G (1.062 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_2.5G MXPP_MR_2.5G	Client 1+1 Y-Cable Fiber-Switched	15454-DM-L1-xx.y= (Unprot) 15454-DMP-L1-xx.y= (Prot)
Transponder	MXP_MR_10DME with EFEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1 Y-Cable	15454-10DME-C= (C band) 15454-10DME-L= (L band)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G with FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)
Transponder	TXP_MR_2.5G TXPP_MR_2.5G without FEC	Client 1+1 Y-Cable Fiber-Switched	15454-MR-L1-xx.y= (Unprot) 15454-MRP-L1-xx.y= (Prot)

Table B-15 Enterprise System Connection (ESCON) (200 Mbps)

Interface Type	Card Type	Protection Type	Product ID
----------------	-----------	-----------------	------------

Table B-15 Enterprise System Connection (ESCON) (200 Mbps) (continued)

Transponder	MXP_MR_2.5G	Client 1+1	15454-DM-L1-xx.y= (Unprot)
	MXPP_MR_2.5G	Y-Cable	15454-DMP-L1-xx.y= (Prot)
		Fiber-Switched	
Transponder	TXP_MR_2.5G	Client 1+1	15454-MR-L1-xx.y= (Unprot)
	TXPP_MR_2.5G 2R	Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-16 ISC-3 Compatibility Mode (1.062 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G without FEC	Client 1+1	15454-MR-L1-xx.y= (Unprot)
			15454-MRP-L1-xx.y= (Prot)
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)
			15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)
			15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1	15454-10DME-C= (C band)
			15454-10DME-L= (L band)

Table B-17 ISC-Peer 2R

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
			15454-MRP-L1-xx.y= (Prot)

Table B-18 ISC-3 Peer-1G (1.062 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)

Table B-19 *ISC-3 Peer-2G (2.125 Gbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	MXP_MR_10DME with EFEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME with FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)
Transponder	MXP_MR_10DME without FEC	Client 1+1	15454-10DME-C= (C band)
		Y-Cable	15454-10DME-L= (L band)

Table B-20 *Sysplex External Throughput Rate (8 Mbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
			15454-MRP-L1-xx.y= (Prot)

Table B-21 *Sysplex Control Link Oscillator (8 Mbps)*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
			15454-MRP-L1-xx.y= (Prot)

Table B-22 *Serial Data Input*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-23 *Digital Video Broadcast-Asynchronous Serial Interface*

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-24 D1-Video (270 Mbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-25 High Definition Television (HDTV) (1.48 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-26 DV-6000 (2.38 Gbps)

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-27 2R Any Rate

Interface Type	Card Type	Protection Type	Product ID
Transponder	TXP_MR_2.5G TXPP_MR_2.5G 2R	Client 1+1	15454-MR-L1-xx.y= (Unprot)
		Y-Cable	15454-MRP-L1-xx.y= (Prot)
		Fiber-Switched	

Table B-28 ONS 15530 2.5G ITU-T

Interface Type	Card Type	Protection Type	Product ID
TXP	MR MM TXP	Client 1+1	15530-TSP1-xx21 (MM Unprot)
	MR SM TXP	Fiber-Switched	15530-TSP1-xx22 (SM Unprot)
	MR MM TXP with splitter		15530-TSP1-xx11 (MM Prot)
	MR SM TXP with splitter		15530-TSP1-xx12 (SM Prot)
LC	2.5-Gbps Aggregation	Client 1+1	15530-ITU3-xx20 (Unprot)
	2.5-Gbps Aggregation with splitter	Fiber-Switched	15530-ITU3-xx10 (Prot)

Table B-29 ONS 15530 10G ITU-T

Interface Type	Card Type	Protection Type	Product ID
LC	10-Gbps Aggregation	Client 1+1	15530-ITU2-xx20 (Unprot)
	10-Gbps Aggregation with splitter	Fiber-Switched	15530-ITU2-xx10 (Prot)
MXP	Data Muxponder	Client 1+1	15530-MSMP-xx22 (Unprot)
	Data Muxponder with splitter	Fiber-Switched	15530-MSMP-xx12 (Prot)