Terminal Access Points

Product Description:

Terminal Access Points (TAPs) provide a permanent and cost-effective solution to access traffic flowing across networks. They are ideal for security and network monitoring, performance analysis, and other applications where multiple links need to be monitored.

- Fully Passive Dual Fiber and Single Fiber BiDi Options with Multiple Tap Ratios
- SM Applications for 10G LR, 100G LR4/CWDM4/ER4, 400G DR4/FR4/LR4
- MM for 10G SR, 25G SR, 40G SR4, 100G SR4
- 19" 1U Rackmount Form Factor with 10 or 12x Preinstalled Modules

Product Ordering Information:

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Function:
Test Access Point

Form Factor/Package:
10 = 10X Capacity Module for 1RU
12 = 12X Capacity Tray for 1RU
20 = Loaded 1RU, 10 Modules
22 = Loaded 1RU, 12 Trays

Version:
D = Dual Fiber (2 links per module)
S = Single Fiber Bi-Directional (3 links per module)

Fiber Type:
S1 = OS2 9/125um
M4 = OM4 50/125

Split Ratio:
50 = 50% Network / 50% Test
60 = 60% Network / 40% Test
70 = 70% Network / 30% Test
75 = 75% Network / 25% Test
80 = 80% Network / 20% Test
90 = 90% Network / 10% Test
95 = 95% Network / 5% Test

Network Connector:
LU = LC/UPC
LA = LC/APC
MT = MTP
MP = MPO

Test Connector:
LU = LC/UPC
LA = LC/APC
MT = MTP
MP = MPO

Added Features

Terminal Access Points

Part Number Examples	Description
TAP-10SS1-70LA-LA	Test Access Point, 10x Module Size, Single Fiber (BiDi), SM OS2, 70:30 Ratio, LC/APC Network & Test Connectors
TAP-10DS1-50LA-LA	Test Access Point, 10x Module Size, Dual Fiber, SM OS2, 50:50 Ratio, LC/APC Network & Test Connectors
TAP-10DM4-50LU-LU	Test Access Point, 10x Module Size, Dual Fiber, MM OM4, 50:50 Ratio, LC/UPC Network & Test Connectors
TAP-10SM4-70LU-LU	Test Access Point, 10x Module Size, Single Fiber (BiDi), MM OM4, 70:30 Ratio, LC/UPC Network & Test Connectors
TAP-10DM4-70MP-MP	Test Access Point, 10x Module Size, Dual Fiber, MM OM4, 70:30 Ratio, MPO Network & Test Connectors
TAP-20SS1-50LA-LA	Test Access Point, Loaded 1RU with 10 Modules, Single Fiber (BiDi), SM OS2, 50:50 Ratio, LC/APC Network & Test Connectors
TAP-20DS1-50LA-LA	Test Access Point, Loaded 1RU with 10 Modules, Dual Fiber, SM OS2, 50:50 Ratio, LC/APC Network & Test Connectors
TAP-20DM4-70LU-LU	Test Access Point, Loaded 1RU with 10 Modules, Dual Fiber, MM OM4, 70:30 Ratio, LC/UPC Network & Test Connectors
TAP-20SM4-70LU-LU	Test Access Point, Loaded 1RU with 10 Modules, Single Fiber (BiDi), MM OM4, 70:30 Ratio, LC/UPC Network & Test Connectors

Performance Specifications:

Parameter		Multimode	Singlemode	Unit
Operating Wavelength		850 or 1310 (LX4)	1310/1550	nm
Supporting Data Speeds		1G, 10G, 25G, 40G, 50G	1G, 10G, 25G, 40G, 100G, 400G	
Optical Protocols		SX, SR, LX4	LX, LR, ER, LR4, ELR4, CWDM4, FR-4	
Operating Bandwidth		±40	±40	MHz-km
Fiber Type		50/125 OM4	9/125 OS2	µm
Typical Excess Loss		≤0.09	≤0.09	dB
Insertion Loss (Network/Monitor)	50/50	≤4.1	≤4.0	dB
	60/40	≤3.1 / ≤5.1	≤3.0 / ≤5.1	
	70/30	≤2.5 / ≤6.4	≤2.4 / ≤6.4	
	80/20	≤1.8 / ≤8.2	≤1.7 / ≤8.3	
	90/10	≤1.3 / ≤11.6	≤1.2 / ≤11.6	
Return Loss		≥30	≥50	dB
Directivity		≥40	≥55	dB
Polarization Dependent Loss		≤0.15	N/A	dB
Operating Temperature		-10 to 70		°C
Storage Temperature		-40 to 85		°C
Fiber Jacket Diameter		Ø2		mm

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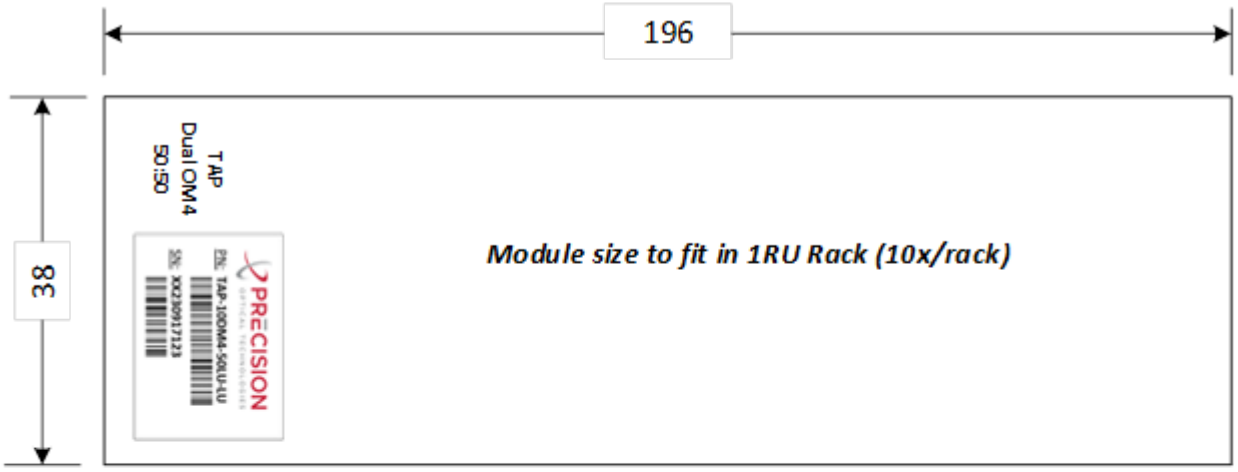
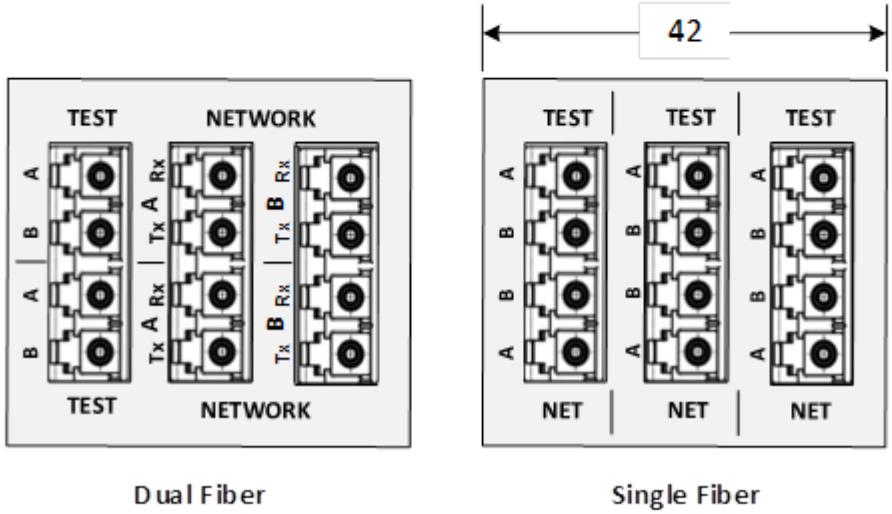
Application Specifications:

Insertion Loss (Network / Monitor)					
	50/50	**60/40**	**70/30**	**80/20**	**90/10**
1/10/25/40/100G SM (LC & VHD)	3.7dB/3.7dB	2.8dB/4.8dB	2.0dB/6.1dB	1.3dB/8.0dB	0.8dB/12.0dB
1G MM (LC)	4.5dB/4.5dB	3.1dB/5.1dB	2.4dB/6.3dB	1.8dB/8.1dB	1.3dB/11.5dB
10G MM (LC & VHD)	3.9dB/3.9dB	2.9dB/4.9dB	2.2dB/6.1dB	1.6dB/7.9dB	-
40G MM (BiDi)	4.1dB/4.1dB	-	-	-	-
4x10/40/100G MM (MTP SR4)	4.4dB/4.4dB	-	2.6dB/6.6dB	-	-
12x10/40/100G MM (MTP SR10)	4.4dB/4.4dB	-	2.6dB/6.6dB	-	-
1/3x100G/3x40G/12x10G	4.4dB/4.4dB	-	2.6dB/6.6dB	-	-
4x10/40/100G MM UHD (MTP SR4)	4.4dB/4.4dB	-	2.6dB/6.6dB	-	-

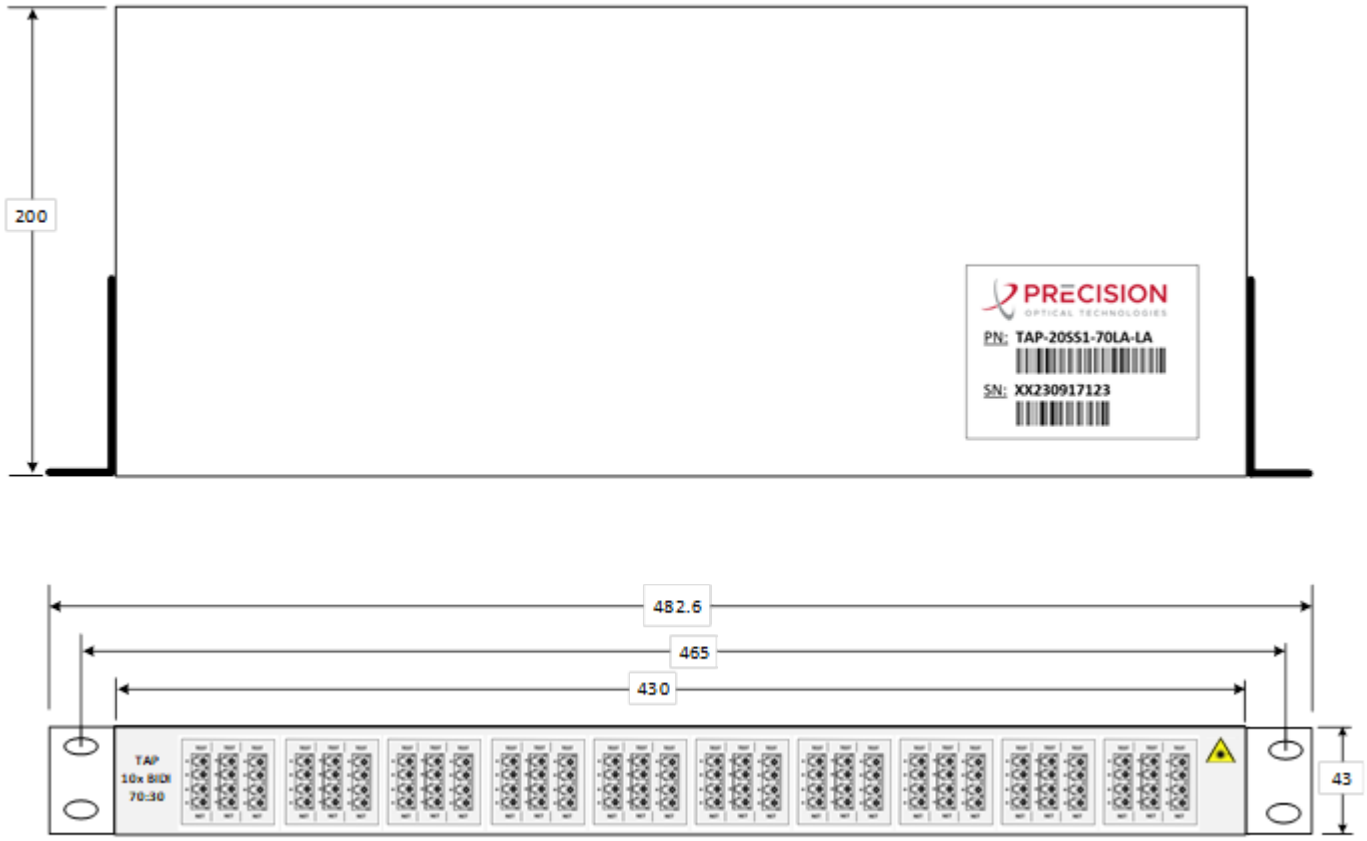
Physical Design:





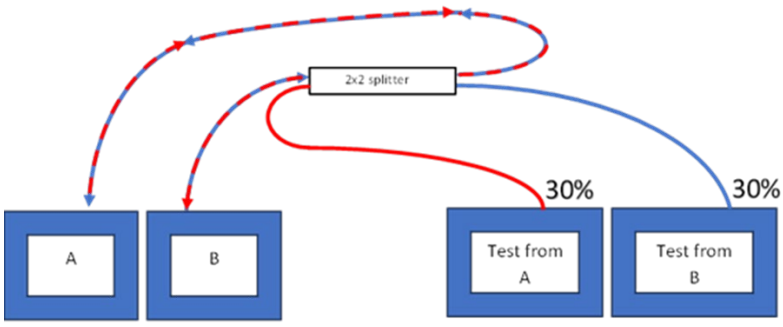
Dual Fiber Single Fiber

TAP Module Design, Faceplate Markings
(P/N: TAP-10DM4-50LU-LU shown)

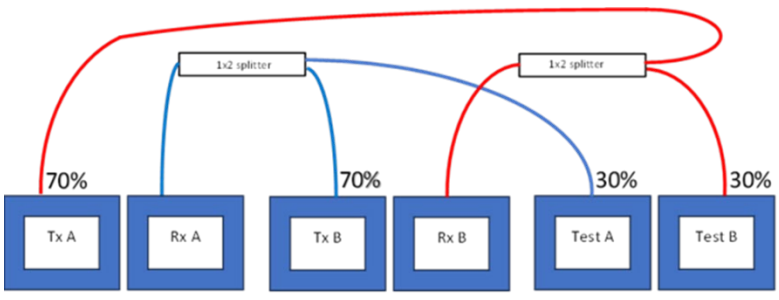


TAP 1RU w/ 10X Loaded Module Chassis Design
(P/N: TAP-20SS1-70LA-LA shown)

Design Diagram:



Single Fiber TAP Design with 70:30 Ratio



Dual Fiber TAP Design with 70:30 Ratio