



Map Utility

(mUTL-A1)

The Multiple Application Platform (MAP) Utility (mUTL-A1) is optimized for the industry-leading Viavi Solutions MAP-200 platform. Based on the previous-generation MAP, the MAP-200 is the first photonic layer lab and manufacturing platform that is LAN Extensions for Instrumentation (LXI)-compliant by conforming to the required physical attributes, Ethernet connectivity, and interchangeable virtual instrument (IVI) drivers. The MAP-200 platform is optimized for density and maximum configurability to meet specific application requirements in the smallest possible foot print. The MAP Utility is designed to simplify the mechanical integration of passive optical components for test sets. It supports angle or flat polish connectors as well as single-mode (SM) and multimode (MM) fibers.

A blank MAP Utility cassette is available for mechanical mounting of components such as isolators, circulators or fixed attenuators. The cassettes are supplied with mounting hardware and ten bulkhead adapters for ease-of-integration.

Key Features

- Coupling, splitting and mux/demux functionality in a robust package
- Supports single-mode and multimode fibers
- User-defined configurability
- Ideal for individual lane testing on WDM signals for 100GE and 40GE applications

Applications

- Bit error rate (BER) test
- Passive component test
- Optical amplifier test

Safety Information

- The MAP Utility, when installed in a MAP chassis, complies to CE, CSA/UL/IEC61010-1, plus LXI Class C requirements.

Single-Mode (SM) Specifications

Parameter	SM 1x2, 1/99 Coupler (Fused)	SM 1x2, 10/90 Coupler (Fused)	SM 1x2, 30/70 Coupler (Fused)	SM 1x2, 50/50 Coupler (Fused)
Fiber type	9/125 μm			
Wavelength	1310/1550 nm			
Insertion loss (IL)	<24.0/1.2 dB	<11.8/<1.2 dB	<6.5/<2.4 dB	<4.1 dB
Optical power handling	300 mW			
Number of slots	1			
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)			
Weight	1.0 kg (2.2 lb)			

Multimode (MM) Specifications

Parameter	MM 10/90 Coupler (Micro-optic)	MM 50/50 Coupler (Micro-optic)
Fiber type	50/125 or 62.5/125 μm	
Wavelength	850/1310 nm	
IL	<11.8/<1.2 dB	<4.1 dB
Optical power handling	300 mW	
Number of slots	1	
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)	
Weight	<1.0 kg (2.2 lb)	

mWDM-A1100GE Specifications

Parameter	
Fiber type	9/125 μm
Wavelength	1295.6, 1300.1, 1304.6, 1309.1 nm
IL	<2.0 dB
Pass bandwidth	± 1.50 nm
Ripple in passband	<0.5 dB
Return loss	>45 dB
Isolation adjacent channel	>15 dB
Isolation non-adjacent channel	>15 dB
Internal fiber length	1 \pm 0.1 m
Number of slots	1
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)
Weight	<1.0 kg (2.2 lb)

mWDM-A1040GE Specifications

Parameter	
Fiber type	9/125 μm
Wavelength	1271, 1291, 1311, 1333 nm
IL	<1.7 dB
Pass bandwidth	± 6.50 nm
Ripple in passband	<0.5 dB
Return loss	>45 dB
Isolation adjacent channel	>30 dB
Isolation non-adjacent channel	>50 dB
Internal fiber length	1 \pm 0.1 m
Number of slots	1
Dimensions (W x H x D)	4.06 x 13.26 x 37.03 cm (1.6 x 5.22 x 14.58 in)
Weight	<1.0 kg (2.2 lb)

Ordering Information

For more information on this or other products and their availability, please contact your local Viavi account manager or Viavi directly at 1-844-GO-VIAVI (1-844-468-4284) or to reach the Viavi office nearest you, visit viavisolutions.com/contacts.

Description	Part Number
Base Options (Required)	
MAP Utility, Blank	MUTL-A1000
Splitter Options (Optional, select one, two, or three)	
MAP Utility, 1% Coupler, Bulkheads	MUTL-A101SB
MAP Utility, 10% Coupler, Bulkheads	MUTL-A110SB
MAP Utility, 30% Coupler, Bulkheads	MUTL-A130SB
MAP Utility, 50% Coupler, Bulkheads	MUTL-A150SB
MAP Utility, Mux/Demux, Bulkheads, With M100 and MFA only	MWDM-A1100GE
MAP Utility, Mux/Demux, Bulkheads, With M100 and MFA only	MWDM-A1040GE
Fiber Type Options (Required if splitter option selected, select one)	
9/125 fiber type	M100
50/125 fiber type	M101
62.5/125 fiber type	M102
Connector Options (Required)	
FC/PC connector type	MFP
FC/APC connector type (for M100 fiber type option only)	MFA
SC/PC connector type	MSC
SC/APC connector type (for M100 fiber type option only)	MSU



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