

FTBx-9600 utility module

■ Integrated couplers and splitters in LTB and FTB platforms



KEY FEATURES

1x2 to 1x8 couplers

Various coupling ratios to fit the application

Protected component to avoid breaking or damaging

Available with EI or EA connectors, and compatible with EXFO's Universal Interface (EUI)

Extended band coverage, from 1240 to 1680 nm

RELATED PRODUCTS AND ACCESSORIES



Rackmount platform
LTB-12



MEMS optical switch
FTBx-9110



Optical light source
FTBx-2150

SPECIFICATIONS ^a							
Coupler	FTBx-9600-01-02-01S	FTBx-9600-01-02-10S	FTBx-9600-01-02-25S	FTBx-9600-01-02-05S	FTBx-9600-01-02-50E	FTBx-9600-01-04-25E	FTBx-9600-01-08C-12E
Fiber type (μm)	Singlemode 9/125						
Wavelength range (nm) ^b	1260 to 1650						
Coupling ratio (%)	1/99	10/90	25/75	5/95	50/50	25 (1x4)	12.5 (1x8)
Insertion loss (dB) ^c	23 / 0.8	11.9 / 1.4	6.9 / 2.1	14.2 / 0.8	4 / 4	7.5	11
PDL (dB) ^c	0.15			0.3			
Return loss (dB) ^c	50						
Maximum input power (mW)	300						

SPECIFICATIONS ^a				
Device	FTBx-9600-NS1506 1x4 LAN-WDM DEMUX	FTBx-9600-NS3106 1x8 LAN-WDM MUX/DEMUX	FTBx-9600-NS3107 1x4 CWDM MUX/DEMUX	FTBx-9600-NS3099 1x2 multimode coupler
Fiber type (μm)	Singlemode 9/125			Multimode 50/125
Center wavelength (nm)	1295.6, 1300.1, 1304.6, 1309.1	1295.56, 1300.05, 1304.58, 1309.14, 1273.54, 1277.89, 1282.26, 1286.66	1271, 1291, 1311, 1331	850, 1300
Insertion loss (dB) ^c	2	2	1.4	4 ^d
Pass bandwidth (nm)	±1.4	±1.1	±6.5	±50 ^d
Isolation adjacent channel (dB)	25	30	30	n/a
Isolation non-adjacent channel (dB)	35	40	40	n/a
Coupling ratio (%)	n/a			50/50 ^d
Return loss (dB) ^c	45			30

GENERAL SPECIFICATIONS		
Coupler	1x2, 1x4	1x8
Number of slots	1	2
Dimensions (H x W x D)	25 mm x 159 mm x 185 mm (1 in x 6 1/4 in x 7 5/16 in)	50 mm x 159 mm x 185 mm (2 in x 6 1/4 in x 7 5/16 in)
Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Operating	-40 °C to 70 °C (-40 °F to 158 °F)	
Storage		
Maximum relative humidity	85 %, non-condensing (at 40 °C)	

a. Specifications valid at 23 °C ± 5 °C.

b. Range for stated specifications. Full functional range is 1240 to 1680 nm.

c. Maximum without connectors.

d. Typical depend on launching conditions.

ORDERING INFORMATION

FTBx-9600-01-XX-XX-XX

Coupler type

02 = 1x2 coupler, singlemode 9/125 μ m fiber
 04 = 1x4 coupler, singlemode 9/125 μ m fiber
 08C = 1x8 coupler, singlemode 9/125 μ m fiber

Coupling ratio

01S = 1/99
 05S = 5/95
 10S = 10/90
 25S = 25/75
 50E = 50/50
 25E = 1x4 equal 25 %^a
 12E = 1x8 equal 12.5 %^b

Example: FTBx-9600-01-02-01S-EI-EUI-89

Connector

EI-EUI-89 = UPC/FC narrow key
 EI-EUI-90 = UPC/ST (EI only)
 EI-EUI-91 = UPC/SC
 EI-EUI-98 = UPC/LC
 EA-EUI-89 = APC/FC narrow key
 EA-EUI-91 = APC/SC
 EA-EUI-98 = APC/LC

^a. Available for FTBx-01-04 models only.^b. Available for FTBx-01-08 models only.

ORDERING INFORMATION

FTBx-9600-XX

Device type

NS3099 = 1x2 coupler, multimode 50/125 μ m fiber, FC/PC (EI-EUI-89) connectors
 NS1506 = 1x4 LAN-WDM MUX/DEMUX, singlemode 9/125 μ m fiber, FC/UPC (EI-EUI-89) connectors
 NS3106 = 1x8 LAN-WDM MUX/DEMUX, singlemode 9/125 μ m fiber, FC/APC (EA-EUI-89) connectors
 NS3107 = 1x4 CWDM MUX/DEMUX, singlemode 9/125 μ m fiber, FC/APC (EA-EUI-89) connectors

Example: FTBx-9600-NS3106

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