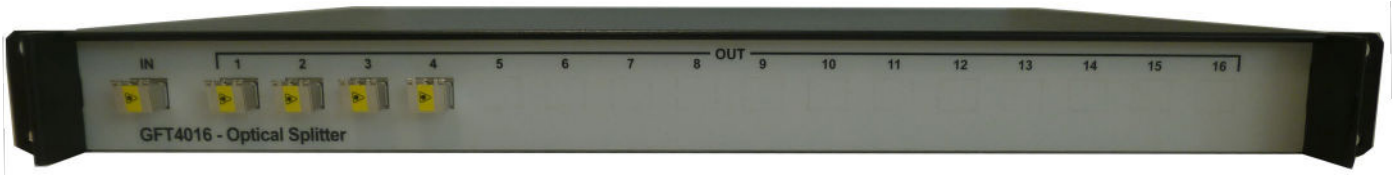
GFT4016
Optical Splitter

Features

- Allows to synchronize up to 16 delay Generators
- Low insertion loss
- Interconnection: optical fiber
- 19", 1U compact packaging

Applications

- Picosecond Timing System
- Optical network
- Optical pulse splitter
- Test equipment

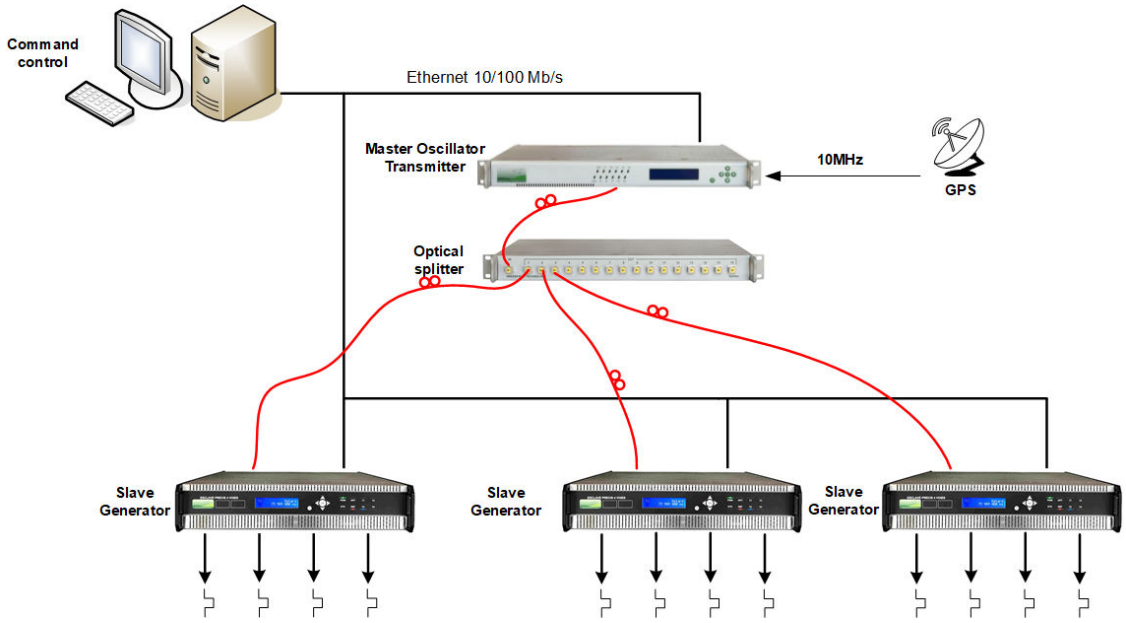


Description

The GFT4016 is a passive Optical Splitter designed for use in optical network. The device allows splitting one channel to 16 channels (4, 8 or 12 channels in option) with very low jitter.

Several GFT4016 can be chained (1 device at first level and up to 16 devices at the second level) to provide up to 256 channels. All the SC optical connectors are situated on the front panel.

The GFT4016 is 19", 1U rack mountable compact packaging. Typical application is to split the optical data stream provided by the Master Oscillator in Picosecond Timing System.



Typical application in Picosecond timing system

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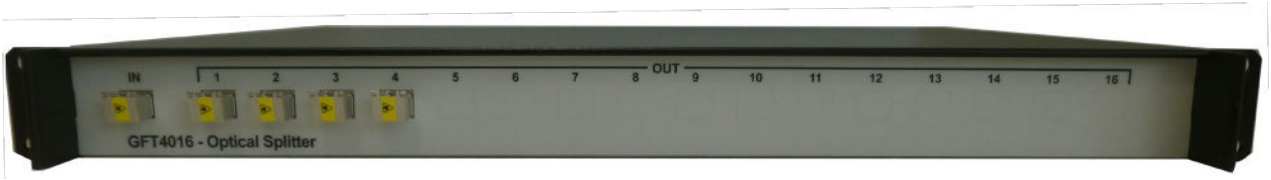
Specifications

Parameter	Value			
Optical input				
Channel number	1			
Wavelength	1300 – 1550 nm			
Optical Fiber	Single-mode			
Optical output				
Channel number	16			
Wavelength	1300 – 1550 nm			
Optical fiber	Single-mode			
Connector	SC with shutter			
Insertion loss	< 14 dB			
Loss uniformity (channel to channel)	< 2 dB			
Polarization depend loss	< 0.3 dB			
Jitter (Input to output)	< 1 ps RMS			
General				
Size	Rack 19'', 1U, P= 300 mm			
Power	None			
Option 1: Less output channel number				
Change of specifications	Channel number	4	8	12
	Insertion Loss	< 8 dB	< 11 dB	< 14 dB
Option 2 : Other Optical connector	PC or APC connector			
Option 3: Optical fiber	Optical fiber for optical input: 2m, Optical fiber for optical output: 10m x Channel number			
Fiber type	9/125 µm			
Insertion loss	< 0.3 dB			
Jacket OD	2 mm- PVC			
Attenuation	036 dB/km @ 1310nm 0.22 dB/km @ 1550 nm			

Packaging



Front panel

Rear panel

Connector

Front panel	
IN	Optical Input (SC connector)
OUT 1 to OUT 16	Optical Outputs (SC connector)

Ordering information

Model	**Description**
GFT4016	Optical Splitter base version: 16 optical outputs
-04	Option 1: Only 4 optical outputs
-08	Only 8 optical outputs
-12	Only 12 optical outputs
-PC	Option 2: With PC connector
-APC	With APC connector
-FO	Option 3: Optical fiber (ask to factory)