

Features

- * Uni-directional application
- * Input and output signal monitoring
- * Intermediate/Long distance extension
- * Compliant with specifications for SONET/SDH
- * WDM technology
- * Save time and money over new fiber
- * Utilize fiber more efficiently
- * Low power consumption
- * RS-232 and Ethernet interface for local and remote supervision
- * Redundant dual power supply

Applications

- * Local area networks
- * Access / Metropolitan area networks

Description

GIP Technology Bright-Edge 20T combines Transponder with Wavelength Division Multiplexer and 20P is a Wavelength Division Multiplexing (WDM) module. They are mainly designed for enterprises, Metro and Access service providers who require a cost-effective and flexible module to increase utilization or provide new services.



These series support the point-to-point network topology. It can not only combine two specified ITG-grid CWDM signals onto one fiber, but also can amplify signals and extend their transmission distance up intermediate or long reach at G.652 SMF. Customers can use it to expand the density and reach of their network applications.

The compact stand-alone type can be embedded in the EIA 19 and 23-inch cabinet rack. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232 and SNMP).

Specifications

Optical Information		Unit	Description
MPI side			
Application type			Uni-directional
Output channel wavelength		nm	1471/1491/1511/1531/1551/1571/1591/1611
Center wavelength accuracy		dB	CWL \pm 1
Passband		dB	CWL \pm 6.5
Output power	Min.	dB	-3, per channel
Spectrum width @ -20dB	Max.	nm	1
Side-mode suppression ratio	Min.	dB	30
Extinction ratio	Min.	dB	8.2
Bit rate	Typ.	bps	2.488G
Dispersion tolerance* ¹	Typ.	ps/nm	1440
Dispersion penalty	Max.	dB	3
Total output power range, MPI port	Min.	dB	-10 ~ +8
Fiber type			Single mode
Connector			SC or FC
CPE side			
Input wavelength range (CH-1/CH-2)		nm	1260 ~ 1620
Input channel wavelength (Expression port)		nm	1511, 1531, 1551, 1571, 1591, 1611
Sensitivity* ² (CH-1/CH-2)	Typ.	dBm	-28
Input power* ² (CH-1/CH-2)	Max.	dBm	-8
Bit rate (CH-1/CH-2)	Typ.	Gbps	2.488G
Insertion loss (Expression port)	Max.	dB	1.5
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Operating voltage		Volt	-48 Vdc and 100 ~ 240 Vac
Fan		pcs	1
Power consumption	Typ.	W	15
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condense)		%	5 ~ 85 (operating)
Outline Information			
Dimension			19" and 23" rack-mounted

* 1: Measured at G.652 SMF.

* 2: Measured with PRBS 2²³ -1 at 10⁻¹⁰ BER.



GIP Technology Corporation
 6F, No. 112, Shin Min. St., Chung Ho Dist., New Taipei City, Taiwan
 Tel: 886-2-82267855 Fax: 886-2-82267955
www.giptek.com e-mail: sales@giptek.com

Specifications

Optical Information		Unit	Description
MPI side			
Application type			Uni-directional
Input channel wavelength (CWL)		nm	1471/1491/1511/1531/1551/1571/1591/1611
Center wavelength accuracy		dB	CWL \pm 1
Passband		dB	CWL \pm 6.5
Total input power		dB	-20 ~ +8
Fiber type			Single mode
Connector			SC or FC
CPE side			
Output channel wavelength (CH-1/CH-2)		nm	1471, 1491
Output channel wavelength (Expression port)		nm	1511/1531/1551/1571/1591/1611
Insertion loss (CH-1/CH-2)	Max.	dB	1.5
Insertion loss (Expression port)	Max.	dB	1.5
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Operating voltage		Volt	-48 VDC and 100 ~ 240 VAC
Fan		pcs	1
Power consumption	Typ.	W	6
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condense)		%	5 ~ 85 (operating)
Outline Information			
Dimension			19" and 23"



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e-mail: sales@giptek.com