



Features

- Up to 50 MHz clock rate
- 2x 16 outputs
SMB connectors
TTL level on 50 Ω external load
10 V level on 1 k Ω external load
1 ns typical output rise & fall time
- 16 LVDS differential inputs
ERI8-031-S-D-RA connector
- Operate from DC +12 V
- Compact module: 3.5"x6.9"x2.4"



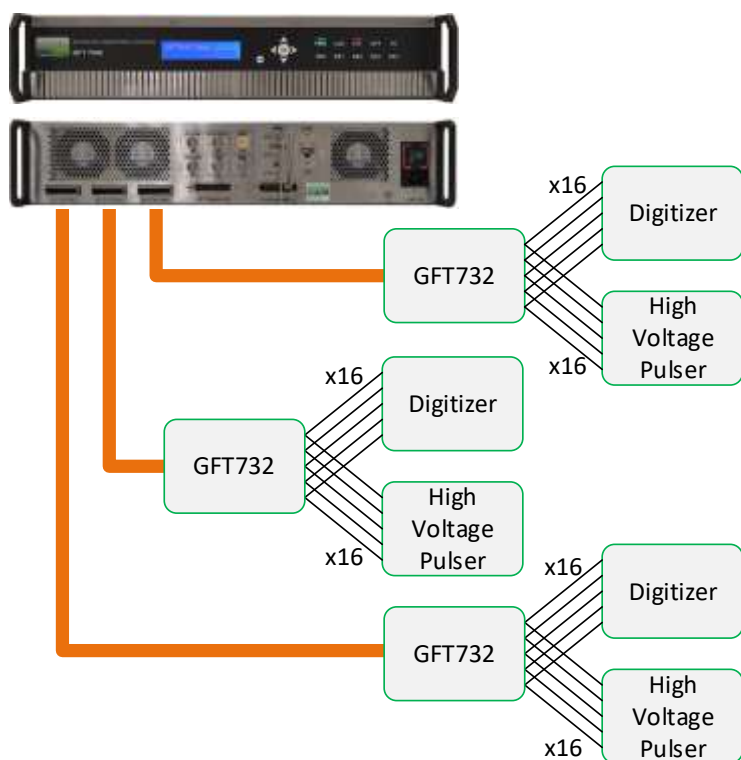
Applications

- LVDS to TTL level translator
- Level translator
- Tools for Lab
- Components Test equipment

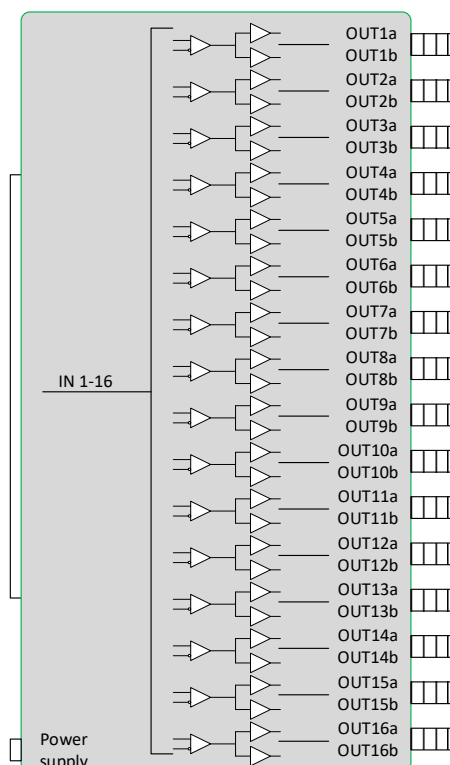
Description

The GFT732 module is specially designed for distribution of high frequency clock and high-speed logic signal to multiple devices. All outputs can drive a cable at clock rate greater than 50 MHz with a 5 V amplitude with a 50 Ω load.

Typical application



GFT732



Specifications

Inputs (IN1 to IN16)	
Channel count	16
Type	LVDS
Differential impedance	100 Ω +/- 5 Ω
Common mode resistance	> 1000 Ω
INx+ and INx- voltage range	0.1 V to 2.3 V
Differential voltage range	0.1 V to 2 V
Maximum frequency	50 MHz
Connector	Samtec p/n ERI8-031-S-D-RA
Outputs (OUT1a/OUT1b to OUT16a/OUT16b)	
Channel count	32 (2x 16)
Level	5 V \pm 0.5 V (50 Ω load) 10 V \pm 1 V (1 k Ω load)
Rise / Fall time	< 1 ns typ.
Input to output propagation delay	< 15 ns
Minimum pulse width	6 ns
Channel-to-channel skew	< 1 ns
Jitter (IN to OUT)	< 15 ps RMS
Maximum duty cycle @ 50 MHz	50 % and max half the channels loaded
Connector	SMB jack
General	
Size	89 x 178 x 61 mm (w/o connectors)
Operating temp.	15 to 35 $^{\circ}$ C
Indicator	Power ON (green)
Power input	2.1mm Jack +12 V / 3 A Max (90 ~ 264 Vac, 47 ~ 63 Hz, AC-DC Adapter included)
Options	
Option 1	-INS: Samtec ERI8-031-S-D-RA input connector (Base version) -INB: SMB (16 x2) input connectors -INA: SMA (16 x2) input connectors
Option 2	-OUB: SMB (16 x2) output connectors (Base version) -OUA: SMA (16 x2) output connectors

Front & Rear Panel



Connector, Switch, Indicators

Front panel		
Indicators		
1	POWER	Fixed green when power ON, red if power fault
Connectors		
2	POWER SUPPLY	Power supply input, 2.1mm Jack
3	INPUTS	LVDS Inputs 1 to 16, Samtec p/n ERI8-031-S-D-RA + ERC-31-01-02
Rear panel		
Connectors		
4	CH1A to CH16A	Outputs 1a to 16a, SMB jack
5	CH1B to CH16B	Outputs 1b to 16b, SMB jack