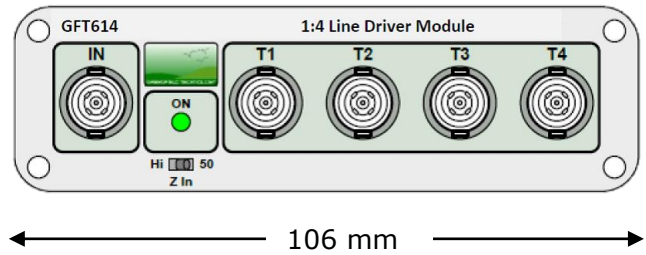


Features

- Up to 250 MHz clock rate
- Drive 100 feet of cable at 200 MHz
- Four synchronized 50 Ω TTL output
- 1 ns typical Output rise & Fall time
- <1 ps input output RMS jitter
- TTL level 50 Ω or 1 K Ω input
- Active low Gate input
- Operate From DC +5 V
- Compact module: 106 X 80 mm
- Option:



Applications

- | | |
|--|--|
| <ul style="list-style-type: none"> • Clock distribution • Components Test • OEM Application | <ul style="list-style-type: none"> • Long Line Driver • Tools for Lab • 1 to 4 splitter |
|--|--|

Description

The GFT614 module is specially designed for distribution of high frequency clock and high speed logic signal to multiple device via long cable. All outputs with 50 Ω load can drive 100 feet of cable at clock rate greater than 200 MHz with 2.5 V amplitude.

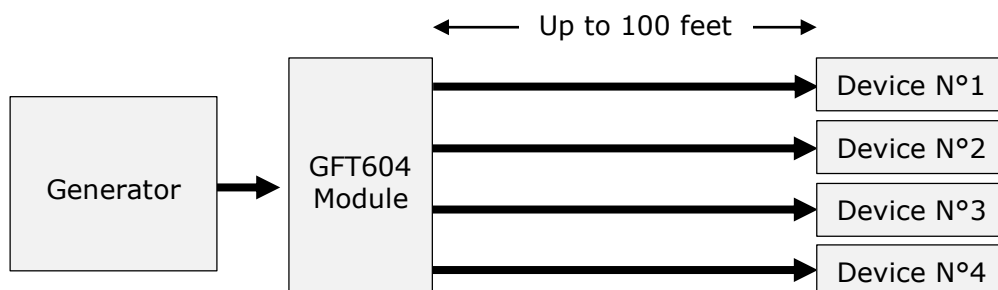
The input load can be selected from 50 Ω to 1 K Ω by a front panel switch.

The channel input can be driven directly by TTL logic levels. The output is compatible with DC or AC TTL input.

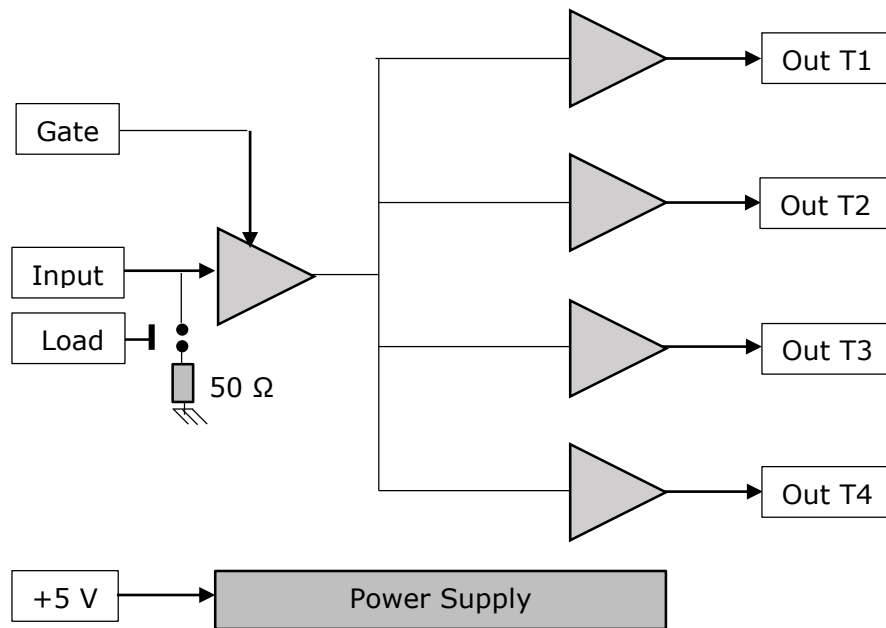
A gate input allows to disable the module by external signal.

The GFT614 is a compact module supplied with a +5V AC/DC adapter

Typical GFT614 application (see below) would be to distribute High speed signal to four devices via long cable (up to 100 ft).



Typical application



Block diagram

Specifications

Input	
Low level	<0.5 V
High level	2.4 V
High load	1 KΩ
Low load	50 Ω
Minimum pulse width	5 ns
Output	
Number	4
Low level	0.5 V
High level	2.5 V @ Load=50 Ω, 4 V @ Load > 10 KΩ
Jitter RMS	2 ps (input to output)
Rise /fall times	1 ns / 1ns @ 100 MHz square wave
Max clock frequency	250 MHz @ cable length = 3 feet
	200 MHz @ cable length = 100 feet
Skew	500 ps (TBC)
Gate	
Low Level	<0.5 V
High level	2.4 V
Rate	50 MHz
General specifications	
Control	Front panel switch to select input load
Inputs & outputs	All are BNC connector
Size	W=100, L=80, H=30 mm
Power V/A	+5 V / 200 mA max. External AC (90 -240 V) to DC (+ 5 V) adapter furnished
Power connector	Jack 2.10 mm
Option : TBD	