GFT4208

1:8 Output Digital Splitter

Features

- Eight simultaneous outputs
  - 3V / 50Ω amplitude
  - < 5ns rise time
  - < 20ps RMS jitter
  - LEMO connectors
- Trigger source
  - External
  - Push button
- cPCI, 6U, 1 slot form factor
- Option: Stand alone Rack 19",1U

Applications

- Components Test
- ATE Application
- Laser Timing System
- Precision Pulse Application

Description

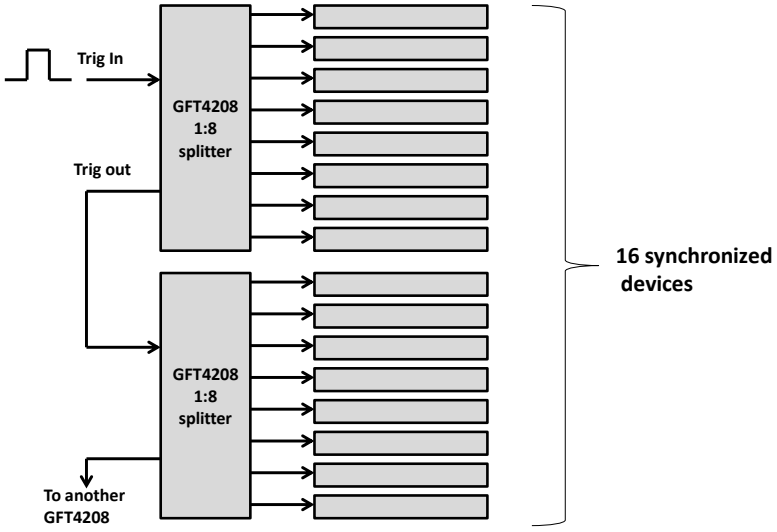
The GFT4208 digital splitter module provides eight simultaneous pulses. Channel to channel jitter is less than 20ps rms.

LEMO outputs deliver 3V level, <5ns rise time, under 50 Ω.

One Input (Trigger In) or push button is used to trigger off all output channels.

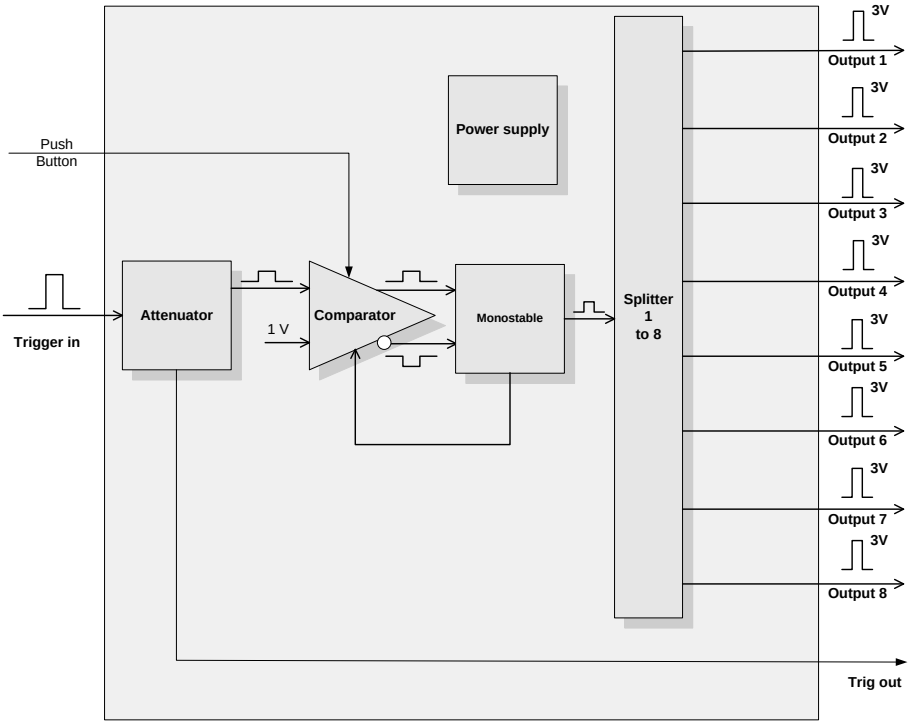
One output (Trig Out) allows to synchronize another GFT4208 modules by daisy chaining several digital splitters.

A typical GFT4208 application would be a local timing system. In this way up to for GFT4208 can synchronize 32 delay generators.



Typical application

GFT4208, 1:8 output digital splitter



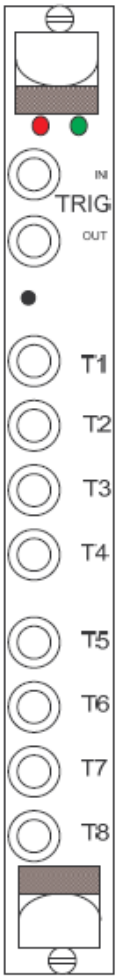
Block diagram

Specifications

Trigger input		
	Threshold	+ 1V
	Slope	Positive
	Impedance	50Ω
	Repetition rate	< 1kHz
Outputs		
	Channels	8 outputs
	RMS jitter (T0 to any output)	< 20ps
	Trigger Delay	< 15ns (insertion delay)
	Drift	< 20ps / °C
	Amplitude	3V
	Load	50Ω
	Rise time / Fall time	< 5ns
	Width	150ns
Trigger output		
	Amplitude	3V
	Load	1MΩ / 50Ω
	Rise time	< 5ns
General		
	Connectors	All are LEMO
	Size	cPCI, 6U, 1 slot
	Power supply	+3.3 V / 200 mA, + 5 V / 100 mA, + 12 V / 300 mA, - 12 V / 100 mA

Option

The unit is available in stand alone Rack 19”, 1U.
Power of the Box is: < 20W, 90 to 240V VAC



GF4208 Front Panel