

Greenfield Technology (GFTY) is a French engineering company dedicated to the design and development of high precision electronic and optical instrumentation.

Since 2001, GFTY provides standard products such as data acquisition system, pulse and delay generator, picosecond timing system, time interval meter, signal generator and various modules for scientific, defense and industrial applications.

GFTY offers a local office to provide service and technical help, allowing our customers a very fast response and a location for quick servicing and calibration needs

Our products are presented in the following charts. For more details about products click on the Model reference (in green) or see our Web site: www.greenfieldtechnology.com

PULSE & DELAY GENERATOR

Model	Channel Number	Delay Resolution	Output Amplitude (50 Ω load)	Form Factor
GFT1604	4, 8	100 ps/1 ps	5 / 10 / 50 V / LVDS	Mini Box
GFT1804	2, 4, 8	100 ps/1 ps	5 / 10 / 50 V / LVDS	Board level
MOD745T	4, 8	0.25 ps	5 V	Box
745-OEM	4, 8	0.25 ps	5 V	Board level
GFT9404	4, (+4)	1 ps, (5 ns)	5 V	PXI, 1 Slot
GFT1208	8	1 ps	10 V	cPCI, 1 Slot
GFT1504	4, 8, 10	100 ps/1 ps	6 / 10 / 20 / 32 V	Box
GFT1004	4, 8, 10	1 ps	6 / 10 / 20 / 32 V	19", 1U
GFT1020	20	100 ps /1 ps	6 / 10 / 20 / 32 V	19", 2U
GFT1000	100	100 ps/1 ps	6 / 10 / 20 / 32 V	19", 12U



GFT1020



GFT1604

HIGH SPEED DIGITIZER

Model	Channel Number	Vertical Resolution	BW / max. Sample Rate	Form Factor
FTD10000	1	13-bit	7 GHz / 1000 GS/s	19", 4U
GFT6822	1, 2	12-bit	3 GHz / 8 GS/s	Board level
GFT6042	2, 4	14-bit	1.2 GHz / 2 GS/s	19", 1U
GFT6084	4	8-bit	500 MHz / 4 GS/s	19", 2U



GFT6022



GFT6084

STREAK CAMERA

Model	Spectral Response	Analysis Duration	CCD Readout Resolution	Form Factor
CBF500	300 – 900 nm	5, 10, 20 and 50 ns	1024 x 1024 pixels, 12-bit A/D	Box
CBF500-02	300 – 900 nm	5, 10, 20 and 50 ns	1392 x 1040 pixels, 16-bit A/D, cooling	Box



CBF500

SIGNAL GENERATOR

LIGHT PULSE GENERATOR

Model	Pulse Width	Peak Power	Wavelength	Form factor
GFT7016	0.1 to 10 μ s	0.5 to 1.5 mW	1310 or 1550 nm	19", 1U

RF GENERATOR

Model	Frequency Range	Frequency Resolution	Output Level	Form Factor
GFT7513	100 kHz to 13 GHz	0.0001 Hz	+15 dBm	Compact box



GFT7513

OPTICAL AWG GENERATOR

Model	Channel Number	Output Amplitude	Timing Resolution	Form Factor
GFT7031	1	11-bit / 10 mW	2.5 GS/s	19", 1U

FAST PULSE GENERATOR

Model	Pulse Rise time	Pulse Amplitude	Pulse duration	Form Factor
GFT7021	30 ps	>2 V / 50 Ω	40 to 250 ps	box



GFT7021

DIGITAL PATTERN GENERATOR

Model	Channel Number	Output Amplitude	Timing Resolution	Form Factor
GFT7048	48	LVDS	0.96 GS/s	19", 2U

1:8 OUPUTS DIGITAL SPLITTER

Model	Pulse Rise Time	Pulse Amplitude	Pulse Duration	Form Factor
GFT4208	<5 ns	3 V / 50 Ω	150 ns	cPCI, 1 slot



GFT7048

TIME INTERVAL METER

Model	Channel Number	Time Resolution	Time range	Form Factor
GFT2002	2	1 ps	1 s	19", 1U
GFT2005	5	12 ps	100 s	19", 1U



GFT2005

PULSE SHAPING MODULES

ELECTRICAL / OPTICAL CONVERTER

Model	Input pulse	Wavelength	Output	Power
GFT101	2.5 to 10 V	1310 or 1550 nm	>0.3 mW	none

OPTICAL / ELECTRICAL CONVERTER

Model	Input Pulse	Wavelength	Output	Power
GFT200	>50 μ W	1310 to 1550 nm	10 V/50 Ω	\pm 12 V

50 Ω LINE DRIVER

Model	Function	Input Pulse	Output Rise / Level	Power
GFT614	1 input to 4 channel drivers	+2 V or -2 V or \pm 0.2 V	1 ns / TTL into 50 Ω	+ 5 V
GFT644	4 channel drivers	+2 V or -2 V or \pm 0.2 V	1 ns / TTL into 50 Ω	+ 5 V

PULSE GENERATOR

Model	Function	Output Width	Output level	Power
GFT632	32 V pulse	1 μ s	15-70 V / 50 Ω	+12 V
GFT144	4 prog. delays	Up to 1 s	LVPECL	+ 5 V

SUB-NS PULSE STRETCHER

Model	Input Pulse	Frequency	Outputs	Power
GFT300	0.1 to 1 V / >500 ps width	40 to 100 MHz	>100 mV, sinus	+12 V



GFT200



GFT632



GFT300

PICOSECOND TIMING SYSTEM

TIMING SYSTEM

Model	Channel Number	Delay Resolution	Remote Control	Form Factor
GFT1000	100 to 2500	1 ps / 100 ps	Ethernet	19", 1U rack

MASTER OSCILLATOR TRANSMITTER

Model	RMS Jitter	Output Power	Remote Control	Form Factor
GFT3001	15 ps	5 mW	Ethernet	19", 1U



GFT3001

OPTICAL SPLITTER

Model	Channel Number	RMS Jitter	Insertion loss	Form Factor
GFT4016	4, 8, 16	<1 ps	<14 dB	19", 1U



GFT4016

SLAVE DELAY GENERATOR

Model	Channel Number	Slave/Slave RMS jitter	Output Amplitude	Form Factor
GFT1012	2, 4	5 ps	10 V/ 50 Ω	19", 2U
GFT1404	4, 8	50 ps	5 V/ 50 Ω	PXI, 1 slot
GFT1018	8	100 ps	10 V/ 50 Ω	19", 1U
GFT1004	8, 10	15 ps	10/32 V / 50 Ω	19", 1U



GFT1012

PARTNERS

 <p>BNC Precision Instrumentation Since 1963</p>	 <p>GREENFIELD SYSTEMS</p>	 <p>MS Mathilda Science</p>
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 <p>FROM RESEARCH TO INDUSTRY cea tech</p>	 <p>Laser Mega Joule</p>	 <p>SOLEIL SYNCHROTRON</p>
 <p>Petal PETAWATT AQUITAINE LASER</p>	 <p>RÉGION Nouvelle- Aquitaine</p>	 <p>Apollon</p>
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