

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

For more details about products see our Web site: www.greenfieldtechnology.com

PULSE & DELAY GENERATOR

| Model | Channel Number | Delay Resolution | Output Amplitude (50 Ω load) | Form Factor |
|---------|----------------|------------------|------------------------------|---------------|
| GFT1020 | 20 | 100ps/1ps | 6V/10V/20V/32V | 19", 2U |
| GFT1040 | 40 | 100ps/1ps | 6V/10V/20V/32V | Two 19", 2U |
| GFT1000 | 100 | 100ps/1ps | 6V/10V/20V/32V | 19", 1U Racks |
| GFT1004 | 4, 8, 10 | 1ps | 6V/10V/20V/32V | 19", 1U |
| GFT1208 | 8 | 1ps | 10V | CPCI, 1 Slot |
| GFT9404 | 4, 8 | 1ps, 1.25ns | 5V | PXI, 1 Slot |
| GFT1504 | 4, 8, 10 | 1ps | 6V/10V/20V/32V | Box |
| 745-OEM | 4, 8 | 0,25ps | 5V | Board level |



GFT1020

HIGH SPEED DIGITIZER

| Model | Channel Number | Vertical Resolution | BW / max. Sample Rate | Form Factor |
|----------|----------------|---------------------|-----------------------|-------------|
| FTD10000 | 1 | 13-bit | 7GHz / 1000GS/s | 19", 4U |
| GFT6011 | 1 | 10-bit | 3GHz / 10GS/s | 19", 1U |
| GFT6022 | 2 | 12-bit | 0.9GHz / 3.6GS/s | 19", 1U |
| GFT6042 | 2/4 | 14-bit | 1.2GHz / 2GS/s | 19", 1U |
| GFT6084 | 4 | 8-bit | 500MHz / 4GS/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 50ns | 1024 x 1024 pixels, 12-bit A/D | Box |
| CBF500-02 | 300 – 900 nm | 5, 10, 20 and 50ns | 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 1.5mW | 1310 or 1550 nm | 19", 1U |

RF GENERATOR

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



GFT7513

AWG GENERATOR (preliminary)

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

FAST PULSE GENERATOR

| Model | Pulse Rise time | Pulse Amplitude | Pulse duration | Form Factor |
|---------|-----------------|-----------------|----------------|-------------|
| GFT7002 | 300ps | 10V/50 Ω | 100ns | 19", 2U |
| GFT7021 | 30ps | >2V/50 Ω | 40 to 250ps | box |



GFT7021

HIGHT VOLTAGE PULSE GENERATOR

| Model | Pulse Rise Time | Output Amplitude | Pulse Duration | Form Factor |
|---------|-----------------|----------------------|----------------|--------------|
| GFT4218 | 6ns | +/-100V/ 50 Ω | 120ns | cPCI, 1 slot |

1.15 GHz GENERATOR WITH PHASE SHIFTER

| Model | Phase Control | Frequency | Output Amplitude | Form Factor |
|---------|---------------|-----------|------------------|-------------|
| GFT7012 | 25 ps step | 1.15GHz | 35 dBm | 19", 2U |



GFT7012

1:8 OUPUTS DIGITAL SPLITTER

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

TIME INTERVAL METER

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



GFT2002

RF AMPLIFIER & CONVERTER MODULES

ELECTRICAL / OPTICAL CONVERTER

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

OPTICAL / ELECTRICAL CONVERTER

| Model | Input Pulse | Wavelength | Output | Power |
|--------|-------------|----------------|-----------------|--------|
| GFT200 | >20 μ W | 1310 to 1550nm | 10V/50 Ω | +/-12V |

STEP GENERATOR

| Model | Input Trigger | Output Rise Time | Output | Power |
|--------|---------------|------------------|----------------|-------|
| GFT500 | >2V | 200ps | 9V/50 Ω | +12V |

RF PULSE AMPLIFIER

| Model | Input | Rise / Fall Time | Output | Power |
|-------------|---------|------------------|--------|-------|
| WA-000367-A | 400mVpp | 100ps | 4Vpp | +11V |

PULSE GENERATOR

| Model | Input Pulse | Output Width | Output | Power |
|--------|-------------|--------------|---------------------|-------|
| GFT632 | >2V | 1 μ s | 32- 70V/50 Ω | +12V |
| GFT400 | >2V | 500ps (FWHM) | 2V/50 Ω | +12V |

SUB-NS PULSE STRETCHER

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



GFT200



GFT500



GFT300

PICOSECOND TIMING SYSTEM

TIMING SYSTEM

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

MASTER OSCILLATOR TRANSMITTER

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



GFT3001

OPTICAL SPLITTER

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



GFT4016

SLAVE DELAY GENERATOR

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



GFT1012

PARTNERS

| | | |
|--|--|---|
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|  <p>IF/RF & Microwave Design Advantex</p> |  <p>DE LA RECHERCHE À L'INDUSTRIE cea</p> |  <p>ÉCOLE POLYTECHNIQUE UNIVERSITÉ PARIS-SACLAY cnrs dépasser les frontières</p> |