

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

C&H Technologies, Inc. λ 445 Round Rock West Drive λ Round Rock, TX 78681-5012

(512) 733-2621 λ FAX (512) 733-2629 λ www.chtech.com

CAUTION
This product requires a PXI/cPCI Chassis with replaceable card guides per the Eurocard mechanical specification



PX464S 50MHz Pulse Generator

The PX464S is a one or two channel fully programmable pulse generator that allows the generation of precisely timed pulses of programmable frequency, pulse width, delay, and amplitude. Operational modes include single, continuous, and burst functions along with double pulse capability. Extensive trigger and gating logic provides comprehensive control of pulse timing. The internal base clock can be disciplined to an external reference clock.

Overview:

Number of Channels: 1 or 2

Frequency: 0.2Hz - 50MHz

Pulse Output: -2V to +7V

Operational Modes:
- Single or continuous pulsing
- Single pulse or pulse pair
- Programmable rise/fall time
- External triggering
- Async. or sync. gating
- Burst from 2 to >4B pulses

Clock Disciplining:
Internal clock can be disciplined to a 10MHz external reference for increased accuracy and stability

Calibration:
Calibration is normally not required, however, registers are provided that allow fine adjustment of the delay times.

Inputs/Outputs (each channel):
- Front Panel Pulse Output
- Front Panel Sync Output
- Front Panel Input A
- Front Panel Input B
- PXI Trigger (5)

Gate, Trigger, Ref. Clock inputs:
Source can be the front panel A or B connectors or a PXI trigger

Pulse and Sync outputs:
Can be directed to the front panel connectors and to a PXI trigger

Front Panel Connectors: SMA

Ordering Information

Part Number

Single Channel	11029170-0001
Dual Channel	11029170-0002

CPCI/PXI Compliance

Complies with PCI spec. 2.0 R3.0 and PCI spec 2.2

5V and 3.3V signaling voltage (VIO) supported

5V only power supply

33MHz PCI data bus

Five trigger lines compliant with PXI Specification 2.1

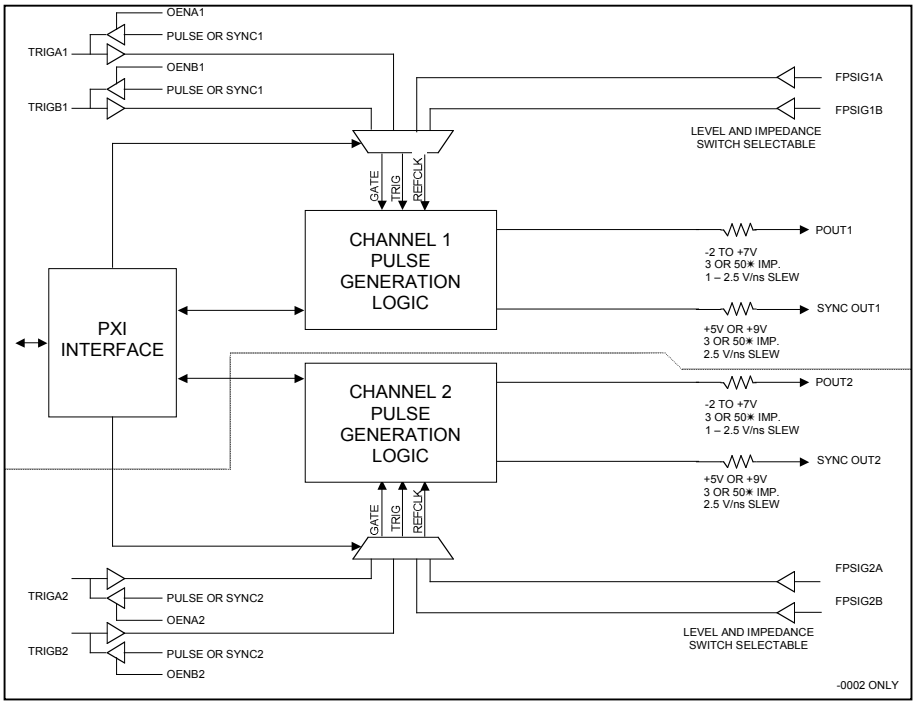
Form Factor: Size 3U

Applications

- Functional testing
- Design verification
- Signal simulation
- Timing control

Additional Information

User Manuals and drivers for C&H modules can be found on our website at www.chtech.com.



Specifications:

Pulse Period:

Range (internal triggering)		20ns to 5.2s
Programming Step Size		100ps
Resolution[1]	20 to 79.9ns	100ps
	80 to 159.9ns	160ps
	160 to 319.9ns	320ps
	320 to 639.9ns	640ps
	640 to 1279.9ns	1.28ns
	1280 to 4999.9ns	2.56ns
	5µs period	5ns
Accuracy (internal clock)		±(0.01% + 100ps)[2]

Pulse Width:

Range	10ns[3] to 5.2s
Prog. Resolution	5ns
Accuracy (internal clock)	±(0.01% + 2ns)[2, 4]

Pulse Delay (from Sync Out):

Range	20ns to 5.2s
Prog. Resolution	5ns
Accuracy (internal clock)	±(0.01% + 2ns)[2, 4]

Pulse Out Characteristics:

Range	-2.0V to +7.0V
Impedance (programmable)	3Ω or 50Ω
Prog. Resolution	25mV
Accuracy	±(2.0% + 100mV)
Output Current (source or sink)	50mA
Short Circuit Current (static)	±35mA max
Short Circuit Current (dynamic)	±100mA max
Rise/Fall Time (prog, R_L =)	1.0 to 2.5V/ns

Input Characteristics (FPSIGAx & FPSIGBx):

Impedance (selectable)	56, 82, 180, or >100K
Threshold (selectable)	-2.0, 0, +1.2, or +1.8V
Frequency	50MHz max
Pulse Width	10ns min

Sync Out Characteristics:

Time to un-delayed output pulse		4ns typ
Time from external trigger		80ns max
Output Impedance (selectable)		3Ω or 50Ω
Amplitude (selectable, R_L =)		5.0V or 9.0V
Output Current (source or sink)		50mA
Rise/Fall Time (R_L =)		2.5V/ns typ
Pulse Width	period < 80ns	10-20ns
	period 80ns	40-80ns

Power: (-0001/-0002)

+5V	800mA / 600mA
+12V	340mA / 170mA
-12V	360mA / 180mA

Temperature:

Operating	0ºC to 50ºC
Storage	-40ºC to 70ºC

Notes:

1. In general, the resolution is 100ps when programming a period less than 5µs; however, there are some areas that have less resolution as specified for the various ranges. See the User Manual for further details.
2. The percent accuracy can be improved by disciplining the internal clock to an external precision 10MHz reference clock. The internal clock accuracy will discipline in about 10 minutes to within one decade of the external reference, up to 10^{-8} accuracy.
3. For pulse periods < 40ns, pulse width = 1/2 period. For periods 40ns the minimum pulse width = 15-30ns. See User Manual for further details.
4. Use of the calibration register can improve this accuracy.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP