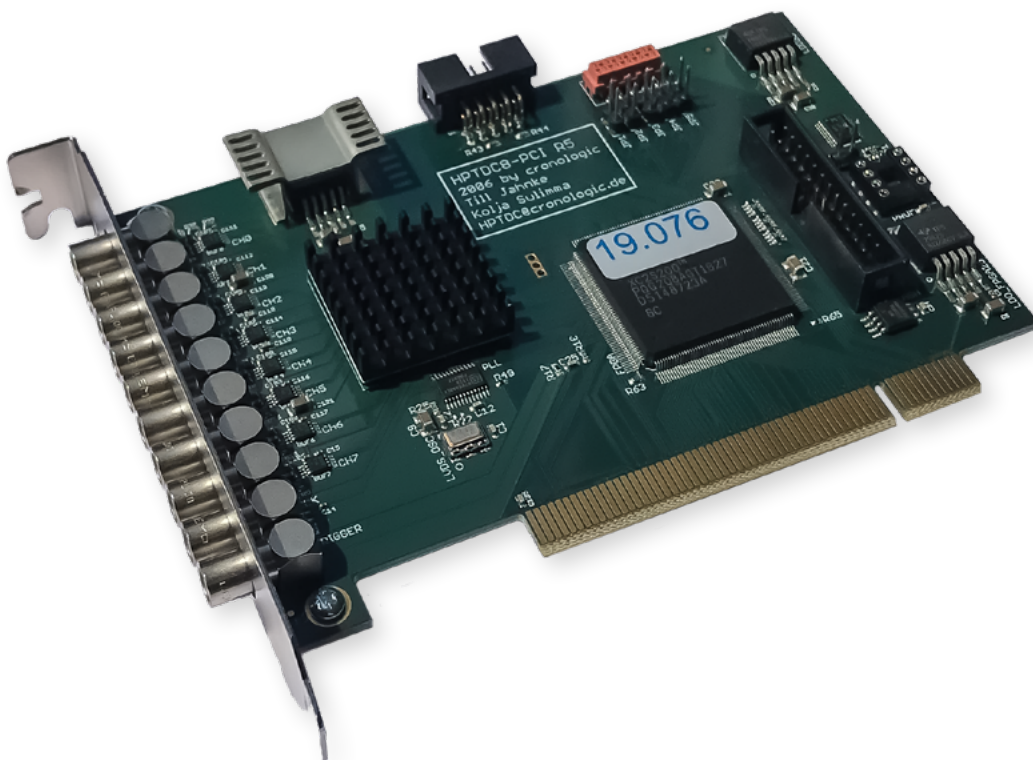


# cronologic

HPTDC8-PCI

Product Brief



[www.cronologic.de](http://www.cronologic.de)

HPTDC8-PCI

## Introduction

The HPTDC was a breakthrough in TDC technology, with unprecedented flexibility. It has facilitated astonishing results in atom physics over the last 15 years.

Over the years it has been applied as an OEM product in many time of flight mass spectrometers in high volume.

Today it should only be used if a PCI bus is absolutely required. For new projects we recommend the xHPTDC8 instead.

## Technical Data

Optimized for	obsolete
TDC channels @ bin size	8 @25ps
Additional inputs	13 CMOS @12.8ns
Connectors	10 x LEMO 00, 1x 26 pin ribbon
Bin size	25 ps
Double pulse resolution	<5 ns typical
Multihit	unlimited
Dead time between groups	none
Readout rate	4 MHits/s
Range	419 $\mu$ s with trigger logic 2 h untriggered (extendable)
Common start/stop	yes / yes
number of boards that can be synced	3
Readout interface	PCI, 5V, 32-bit, 33 MHz, bus master
Time base	1 ppm on board or external 78.125 MHz clock

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