

TOF1

Time-to-Digital Converter



SPECIFICATION SUMMARY

Temporal resolution	1ns bin width
Sampling technique	direct digital sampling with 1 Ghz, 10 ppm crystal controlled oscillator
Differential nonlinearity	<< 1%
Integral nonlinearity	10 ppm
Number of stops	unlimited stops (FIFO memory in data path)
Dead time	2 ns (max)
Histogramming rate	> 1 M events/sec
Histogram memory	128K words x 24 bits
Trigger	internally generated, programmable rate, TTL level output
Hit input	TTL level
Flight time	128 microseconds
Form factor / interface	PC / ISA bus