

Technical specification for Time to Digital converter for Single Photon Detection

Minimum specification for **Time to Digital Counter for Single Photon Detection**

Sr. no.	Specification	Value
1	RMS Jitter	35 ps or lesser
2	FWHM Jitter	80 ps or lesser
3	Digital resolution	1 ps or better
4	Input channels	8 or more
5	Dead time	6 ns or lesser
6	Data Transfer rate	8 M Tags/s or greater
7	Burst memory	8 M Tags or largers
8	Maximum input frequency	Greater than or equal to 150 MHz
9	Input Impedance	50 Ω should be included
10	Input signal range	Should be suitable for TTL pulses
11	Maximum input level	Should be suitable for TTL pulses
12	Trigger level range	Should be TTL compatible.
13	Minimum pulse width	1 ns or lesser should be admissible.
14	Data interface	Should include USB as one of the options

Accessories which should be included in the quotation/bid:

Necessary connections for computer interfacing

Control software

Please provide a clear warranty statement for 2 years