

Technical specification for **Photon Counting Card**

Sr. no.	Specification	Value
1	Coupling	Fiber coupled
2	No. of Channels	4 or greater
3	Active area	Greater than or equal to 160 μm
4	Peak photon detection efficiency (PD) @ 650nm	$> 60\%$
5	Wavelength range	400 – 1060 nm or greater in range
6	Maximum count rate, continuous (per channel)	$\geq 2\text{Mc/s}$
7	Case operating temperature	$0 - 50^{\circ}\text{C}$
8	Dark count per channel	Less than or equal to 500 cps
9	Average dark count variation at constant temperature	$\pm 10\%$ or lesser
10	Average dark count variation at given temperature range	$\pm 20\%$ or lesser
11	Output pulse width	20 – 30 ns
12	Dead time	Less than or equal to 50 ns
13	Single photon timing resolution per channel	600 ± 50 ps
14	Linearity correction factor @ 1.5 Mc/s	≤ 1.20
15	Gating turn on delay before first edge of true output pulse	≤ 75 ns
16	Gating turn-off delay for minimum last output pulse	≤ 15 ns

Please provide a clear warranty statement for 2 years