

Commercial products

Product name	Design type	Range	Resolution	Jitter	Dead time
MPD Picosecond Delayer	non-blocking	50 ns	10 ps	5 ps	8.3 ns
Photonic Solution DG535	blocking	1000 s	5 ps	50 ps	800 ns + delay time
Highland technology P500	blocking	1000 s	1 ps	15 ps	30 ns + delay time
Berkley Nucleonics 745-OEM	blocking	20 s	1 ps	25 ps	70 ns + delay time

Research works

Work reference* No., year	Design type	Range	Resolution	Jitter	Dead time
[27], 2011	blocking	4.4 ms	65 ps	400 ps	~delay time
[35], 2015	non-blocking	1 - 2.6 ns	11 ps	N.A.	N.A.
[28], 2015	blocking	550 s	2 ns	35 ps - 1 us	128 ns + delay time
[29], 2016	blocking	8 s	11 ps	10 ps	~delay time
[20], 2017	blocking	232 -6232 ps	38.6 ps	33.6 ps	208 ns
[31], 2017	blocking	43 s	3.93 ps	10 ps	~delay time
[32], 2018	blocking	1 ms	78 ps	11.7 - 16.5 ps	~delay time
[33], 2018	blocking	5 ns - 10 s	5 ps	4 - 9.31 ps	~delay time
[34], 2018	blocking	1.92 - 3.31 ns	20 ps	4.5 ps	~delay time
[36], 2019	blocking	6.25 ns - 5 s	3 ps	3.2 ps	~delay time
[37], 2021	blocking	440 ps - 10.9 ns	9.1 - 14.2 ps	1.9 - 2.8 ps	37 ns
This Work	non-blocking	23 - 1635 ns	10 ps	7 - 165 ps	4 - 22.5 ns

*For references [27-37] see arXiv:2105.09183