

TABLE 3 VARIOUS STANDARDS' REFLECTED-TDR RISE-TIME REQUIREMENTS

Standards	Standards characteristics				10 to 90% reflected-TDR-rise-time needs/20 to 80% reflected-rise-time needs (psec)	
	Data rate (Gbps)	Bit width (psec)	Specified 10 to 80% rise time (psec)	Estimated 20 to 80% rise time (psec)		
First-generation standards (rise time is 15% of bit width)	InfiniBand	2.5	400	100	60	40/30
	PCI Express	2.5	400	50	60	40/30
	SATA II	3	333	67	50	34/25
	XAUI	3.125	320	60	48	32/24
Second-generation standards (rise time is 20% of bit width)	4-Gbps Fibre Channel	4.25	235	60	47	32/24
	Sata III	6	167	NA	33	22/17
	Double-speed XAUI	6.25	160	NA	32	21/16
Third-generation standards (rise time is 25% of bit width)	8-Gbps Fibre Channel	8.5	118	NA	29	20/15
	100G Base-R	10.31	97	24	24	16/12
	10G Base-R FEC	11.1	90	24	23	15/11