

WaveExpert Module and Option Selection Guide



	bit rate (Gb/s)	ST-20	SE-30	SE-50	SE-70	SE-100	CDR-E135	CDR-O125	PPG-E135	ME-15 module extender cable	SO-10 w/ reference receiver(s)	SO-25	SO-50	WE-SDA	Virtual Probe	Equalizer Emulation	WE-HCIS	WE-CIS	WE-XXL	
SATA 1.5 Gb/s	1.5	*				*			*				*					*	*	TDR for cables and TX/RX. XXL memory measures long COMP pattern (81920 symbols)
SAS 150	1.5	*				*			*				*					*	*	TDR for cables and TX/RX. XXL memory measures long COMP pattern (81920 symbols)
HDMI 1.2	1.65	*				*			*				*					*		TDR cable testing
DVI	1.65	*				*			*				*					*		TDR cable testing
Fibre Channel	2.125	*					*			*			*					*		Fast throughput eye measurement. Jitter on CJPAT with WE-SDA
HDMI 1.3	2.2275	*				*			*				*					*		TDR cable testing
2.5 Gb SONET/SDH	2.48832						*			*	*							*	*	Fast eye pattern measurement, XXL memory for pattern dependent analysis
InfiniBand	2.5	*				*		*					*					*		Jitter on CJPAT with WE-SDA, TDR cable testing
PCIe Gen1	2.5	*				*		*					*					*		Measure 640 bit compliance pattern jitter with WE-SDA
ATCA	2.5	*				*		*					*	*	*			*		Measure 640 bit compliance pattern jitter with WE-SDA, Eye Doctor provides interoperability testing on equalized backplanes, TDR measures S-parameters
Serial ATA 3 Gb/s	3	*				*			*				*					*	*	TDR for cables and TX/RX. XXL memory measures long COMP pattern (81920 symbols)
SAS 300	3	*				*			*				*					*	*	TDR for cables and backplanes. XXL memory measures long COMP pattern (81920 symbols)
XAUI	3.125	*				*							*					*		Rj, Dj using WE-SDA
10GBASE-LX4	3.125	*				*				*			*					*		Rj, Dj using WE-SDA
Serial RapidIO	3.125	*				*							*					*		Rj, Dj using WE-SDA
FireWire	3.2	*				*				*			*					*		
Fibre Channel	4.25									*			*					*	*	Rj, Dj using WE-SDA
FB-DIMM I	4.8	*				*		*					*					*		
PCIe Gen2	5	*				*		*					*	*	*			*		Eye Doctor provides fixture de-embedding for TX compliance. WE-SDA enables jitter measurement on 640 bit compliance pattern
SAS Gen2	6	*				*							*	*	*			*		Virtual Probe provides fixture de-embedding for TX compliance. Equalizer provides compliant receiver testing. WE-SDA enables jitter measurement on CJPAT
SATA Gen3	6	*				*							*	*				*	*	Virtual Probe provides fixture de-embedding for TX compliance. WE-SDA enables jitter measurement on CJPAT
Fibre Channel	8.5		*	*						*			*					*		Optical compliance testing with fast eye pattern, Tj Dj measurement with WE-SDA.
FB-DIMM II	9		*			*		*		*			*	*				*		
10G SONET/SDH	9.953						*	*		*	*				*			*	*	XXL memory provides capture of PRBS23 for pattern dependent analysis. Equalizer allows emulation of dispersion compensation
10G Ethernet	10		*	*			*	*		*			*		*			*		Tj and Dj with SDA option, dispersion compensation with Equalizer emulation, XXL provides pattern dependent analysis up to PRBS23
802.3aq 10GBASE-LRM	10.3		*	*			*	*					*	*	*			*	*	Tj and Dj with SDA option, TWDP with Equalize emulation, XXL provides pattern dependent analysis up to PRBS23
High Accuracy Jitter Analysis	12.5		*	*									*			*		*		230 fs rms jitter noise floor with HCIS, jitter breakdown analysis up to 1M bits with XXL memory
80 Gb/s Optical	80				*	*							*	*	*	*		*		230 fs rms jitter with HCIS, 90 GHz optical bandwidth with HHI C05-W-22 photodetector and SE-100, Eye Doctor for dispersion compensation
40 Gb/s Optical	up to 43				*	*					*		*	*	*	*		*		230 fs rms jitter with HCIS for eye pattern analysis, fast eye pattern measurement. XXL memory for pattern dependent analysis. 90 GHz optical bandwidth with HHI C05-W-22 photodetector and SE-100