

T10/02-148r0



Existing Automation-Drive Interfaces

Comparison of Physical & Link Protocols

Physical Layer Comparison

Tape Drive	Signal Levels	Duplex	5V	Ground	Sense	Control Lines			Connector Specified
						Attention	Drive Reset	Wrap Tool Present	
HP LTO	RS-422	Full	0	1	Automation, Drive	Y	Y	N	Y
IBM LTO	RS-422	Full	0	?	Drive	N	N	Y	Not Supplied
Quantum SDLT	RS-422	Full	0	3	Automation	N	N	N	Y
Seagate LTO	RS-422	Full	0	4	Drive (via Gnd)	N	N	N	N
Sony	TTL	Half	1	1	None	N	N	N	N

2nd Tx - Rx pair reserved.

Link Layer Comparison

Tape Drive	Clock	Data Bits	Parity	Stop Bits
HP LTO	Async	8 - Fixed	N - Fixed	2 - Fixed
IBM LTO	Async	8 - Fixed	N - Fixed	1,2 - Switch
Quantum SDLT				
Seagate LTO	Async	8 - Fixed	N - Fixed	1,2 - Run time
Sony	Async	8 - Fixed	N - Fixed	1 - Fixed

Baud Rate Comparison

Tape Drive	Configuration	Baud Rate - <u>Default</u>								
		2400	4800	9600	19200	38400	57600	76800	115200	153600
HP LTO	Run time	N	N	<u>Y</u>	Y	Y	Y	N	Y	N
IBM LTO	Switch	N	N	Y	N	Y	N	N	N	N
Quantum SDLT	Run time	Y	N	Y	Y	Y	Y	Y	Y	Y
Seagate LTO	Run time	N	Y	<u>Y</u>	Y	Y	Y	N	Y	N
Sony	Fixed	N	N	Y	N	N	N	N	N	N