

LPC Trace Routing Guidelines

Parameter	Trace Routing
Transfer Rate @ 33MHz	16 MBit/s
Maximum data and control signal length allowance for the COM Express carrier board	15.0 inches
Maximum clock signal length allowance for the COM Express carrier board	8.88 inches
Single-ended Impedance	55 Ω +/-15%
Trace width (W)	5mils (microstrip routing) (*)
Spacing between signals (inter-signal) (S)	7mils (microstrip routing) (*)
Length matching between single ended signals	Max. 200mils
Length matching between clock signals	Max. 200mils
Spacing from edge of plane	Min. 40mils
Reference plane	GND referenced preferred
Via Usage	Try to minimize number of vias