


Tilde (~) Commands for Routing

The following commands pertain to the Interactive Router in Altium Designer. This list is based upon version AD20.

Altium also provides an Interactive Differential Pair Router and an Interactive Multi-Routing router. Many of the commands shown in this document are applicable to these two other routers.

The commands listed were presented in the Nine Dot Connects' Routing Webinar. This one hour presentation can be found: <https://www.ninedotconnects.com/webinar-routing-tools>

Methods to start the interactive router:

UI	Command	Notes	Timestamp
Icon	 Interactively Route Connections		8:27
Menu	Place >> Trace	This is a legacy holdover when the routing commands were under the Place menu.	8:06
Menu	Route >> Interactive Routing		7:25
Short Cut	Ctrl-W		7:30
Short Cut	'P' , 'T'	This is a legacy holdover when the routing commands were under the Place menu.	8:18
Short Cut	'U' , 'T'		7:50

Cursor Look/Feel during Routing

	Command	Options	Timestamp
Cursor Style	Preferences >> PCB Editor >> General Topic: Cursor Type	<ul style="list-style-type: none"> • Small 90 ('+')(Default) • Large 90('+') • Small 45 ('X') 	
Panning	Preferences >> PCB Editor >> General Topic: AutoPan Options	<ul style="list-style-type: none"> • Re-Center - Recenters the cursor to the center upon approaching the edge of the layout screen • Fix Size Jump - The number of step sizes to move the cursor during pan. 	7:10

		<ul style="list-style-type: none"> • Shift Accelerate - Accelerates the speed of the panning • Shift Decelerate - Decelerates the of the panning • Ballistic - The harder to press against the edge, the faster it will go • Adaptive - Based on the pixels/sec - allows for a common speed regardless of zoom 	
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The following are the commands that can be used within the routing command.

Tilde (~) key can only be used when the route has been started.

The properties menu can be accessed at any time during the routing command. Press the TAB key to pause the command and access the properties panel.

COMMAND	SHORTCUT	Tilde menu	Properties Panel	Notes	Timestamp
Help	F1	✓	✓		18:13
Pause Interactive Process	Tab	✓	As a result of using the TAB key		9:12, 17:50
Suspend	Esc	✓			13:07, 18:00
Commit	Enter	✓	If entering data into a text box		12:50, 18:03
Undo Commit	BkSp	✓			11:50, 18:12
Autocomplete Segments To Target	CTRL+Click	✓			19:40
Look Ahead Mode	1	✓			20:42
Toggle Elbow Side	Space	✓			9:47
Cycle Corner Style	Shift + Space	✓	✓		11:26

COMMAND	SHORTCUT	Tilde menu	Properties Panel	Notes	Timestamp
Toggle Routing Mode	Shift + R	✓	✓		23:00, 25:37
Toggle Loop Removal	Shift + D	✓	✓		28:56
Show Clearance Boundaries	Ctrl + W	✓	✓		31:56
Toggle 'Follow' Mode	Shift + F	✓			34:05
Choose Favorite Width	Shift + W	✓	✓		36:22
Choose Favorite Via Size	Shift + V	✓			52:18
Cycle Track - Width Source	3	✓	✓	(Shows in preview mode)	35:35
Cycle Via - Size Source	4	✓	✓	(Show in preview mode)	52:04
Next Layer	Num +	✓	✓		39:09
Next Layer	Num *	✓			39:09
Previous Layer	Num -	✓	✓		39:48
Select Layer	Ctrl + L	✓			40:24
Switch Layer For Current Trace	L	✓		Must start on an existing via.	40:40
Drop a Via	Ctrl + Shift + Mouse scroll				41:17
Add Fanout Via and Suspend	Num /	✓		(tilde (~) menu does not display 'Num' part of the shortcut)	44:00
Add Via (No Layer Change)	2	✓			44:48

COMMAND	SHORTCUT	Tilde menu	Properties Panel	Notes	Timestamp
Change Routing Transition	6	✓			42:56
Select Routing Transition	8	✓			43:42
Next Routing Target	7	✓			45:19
Swap to Opposite Route Point	9	✓			46:55
Add Accordions	Shift + A	✓			47:48
Toggle Length Gauge	Shift + G	✓	✓		49:18
Cycle Glossing Effort	Shift + Ctrl + G	✓	✓		14:28, 24:33