



CADSTAR 10

Routing Matrix

D A T A S H E E T

Feature	XR-5000HS Standalone	XR-5000 Standalone	XR-2000HS Standalone	XR-2000S Standalone	XR-2000 Standalone	XR-2000 L4/L6 Standalone	Interactive Standalone	XR-2000 Embedded	Interactive Embedded
Layer Limitation	unlimited	unlimited	unlimited	unlimited	unlimited	4/6 respectively	unlimited	unlimited	unlimited
Analysis									
Characteristic impedance based on field solver results	✓		✓						
Crosstalk based on formulae (field solver results used in formula)	✓		✓						
Delays based on formulae (field solver results used in formula)	✓		✓						
Field solution from layer stack (.mlt generation)	✓		✓						
IBIS model import	✓		✓	✓					
Overshoot based on formulae (field solver results used in formula)	✓								
Simulation library manager	✓		✓	✓					

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Layer Limitation	unlimited	unlimited	unlimited	unlimited	unlimited	4/6 respectively	unlimited	unlimited	unlimited
High-Speed Route/Place									
Length checks (pin-based including pin length groups)	✓		✓	✓					
Length routing	✓		✓	✓					
Lengthen tool (manual) for delay	✓								
Lengthen tool (manual) for length	✓								
Lengthen during autorouting (delay)	✓		✓						
Lengthen during autorouting (length)	✓		✓	✓					
Lengthening Wizard	✓		✓	✓					
Locate crosstalk	✓		✓						
Locate differential pairs	✓		✓	✓					
Ordered/controlled topology obedience	✓		✓	✓					
Report (differential pairs)	✓		✓	✓					
Shielding tool	✓		✓	✓					
Skew Groups	✓		✓	✓					
Physical Design									
Acid-trap removal	✓	✓	✓	✓	✓	✓			
Activ-45 manual routing	✓	✓	✓	✓	✓	✓		✓	
Align Components during Move	✓	✓	✓	✓	✓	✓	✓		
Angled autorouting (45)	✓	✓	✓	✓	✓	✓		✓	
Angled autorouting (free angle)	✓	✓							
Bus Routing (Track following)	✓	✓	✓	✓	✓	✓		✓	

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Physical Design									
River Router	✓	✓	✓	✓	✓	✓		✓	
Routability analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓
Route from Other End	✓	✓	✓	✓	✓	✓	✓		
Rules By Area	✓	✓							
Same net spacing controls	✓	✓							
Security copies	✓	✓	✓	✓	✓	✓	Timed-save only	✓	✓
Best-pass autorouting auto-save	✓	✓	✓	✓	✓	✓		✓	
Separation measurement tool	✓	✓	✓	✓	✓	✓	✓		
Smoothing – automatic via-reduction	✓	✓	✓	✓	✓	✓	✓	✓	✓
SMD-pad special vias	✓	✓							
Snap-vias-Legal	✓	✓							
Split Power-plane creation	✓	✓							
Teardrop tools	✓	✓	✓	✓	✓	✓	✓		
Testpoints	✓	✓	✓	✓	✓	✓		✓	
Tidy Route	✓	✓	✓	✓	✓	✓		✓	
Trunk routing/editing	✓	✓	✓	✓	✓	✓			
Trunk-end routing	✓	✓	✓	✓	✓	✓			
Unmiter tool	✓	✓	✓	✓	✓	✓	✓	✓	✓
Variant support	✓	✓	✓	✓	✓	✓	✓		