

Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 85 ohm Version

Time Domain Data Summary

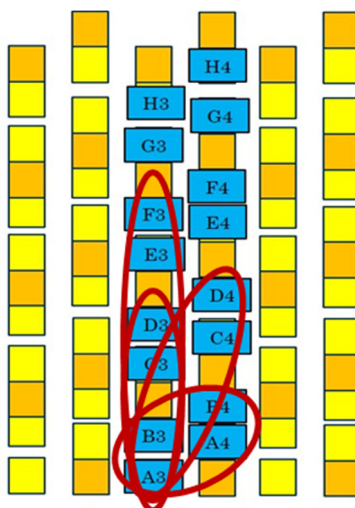
Table 1 - Differential Impedance (Ω)				
Diff Pair Combination	Signal Rise-time	30ps	50ps	100ps
A3-B3	Maximum Impedance	97.34	96.91	94.57
	Minimum Impedance	78.09	79.15	79.36
C3-D3	Maximum Impedance	94.04	93.72	92.13
	Minimum Impedance	77.66	77.98	78.62
E3-F3	Maximum Impedance	95.53	94.26	92.34
	Minimum Impedance	76.81	77.13	77.87
G3-H3	Maximum Impedance	98.62	97.23	94.47
	Minimum Impedance	75.21	75.43	75.85
A4-B4	Maximum Impedance	92.45	92.34	90.96
	Minimum Impedance	78.72	79.79	81.49
C4-D4	Maximum Impedance	94.89	93.72	92.02
	Minimum Impedance	78.83	79.15	79.57
E4-F4	Maximum Impedance	95.53	94.47	92.77
	Minimum Impedance	77.77	77.98	78.62
G4-H4	Maximum Impedance	93.62	93.09	91.60
	Minimum Impedance	76.28	76.49	77.55

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Table 2 - Differential Crosstalk (%) – A3B3						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_A3B3	HDTF-RA_A4B4	1.0	0.7	0.4
		HDTF-RA_A3B3	HDTF-RA_C3D3	0.5	0.4	0.3
		HDTF-RA_A3B3	HDTF-RA_C4D4	0.3	0.2	0.1
		HDTF-RA_A3B3	HDTF-RA_E3F3	0.2	0.2	0.1
	FEXT	HDTF-RA_A3B3	HDTM_A4B4	1.1	0.9	0.6
		HDTF-RA_A3B3	HDTM_C3D3	1.0	0.8	0.5
		HDTF-RA_A3B3	HDTM_C4D4	0.2	0.2	0.1
		HDTF-RA_A3B3	HDTM_E3F3	0.2	0.2	0.1

Differential Crosstalk Pin Map for A3B3:

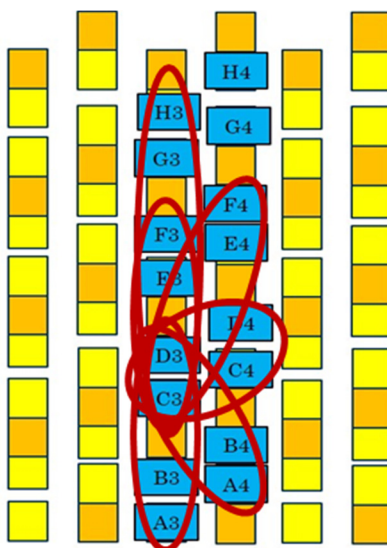


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Table 3 - Differential Crosstalk (%) – C3D3						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_C3D3	HDTF-RA_A3B3	0.5	0.4	0.3
		HDTF-RA_C3D3	HDTF-RA_A4B4	0.5	0.5	0.4
		HDTF-RA_C3D3	HDTF-RA_C4D4	0.3	0.2	0.2
		HDTF-RA_C3D3	HDTF-RA_E3F3	0.4	0.4	0.3
		HDTF-RA_C3D3	HDTF-RA_E4F4	0.3	0.2	0.1
		HDTF-RA_C3D3	HDTF-RA_G3H3	0.4	0.2	0.1
	FEXT	HDTF-RA_C3D3	HDTM_A3B3	0.7	0.5	0.4
		HDTF-RA_C3D3	HDTM_A4B4	0.2	0.1	0.1
		HDTF-RA_C3D3	HDTM_C4D4	0.2	0.2	0.1
		HDTF-RA_C3D3	HDTM_E3F3	0.5	0.4	0.3
		HDTF-RA_C3D3	HDTM_E4F4	0.2	0.1	0.1
		HDTF-RA_C3D3	HDTM_G3H3	0.2	0.1	0.1

Differential Crosstalk Pin Map for C3D3:

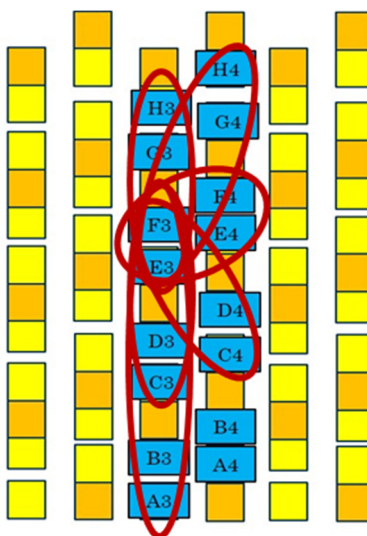


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Table 4 - Differential Crosstalk (%) – E3F3						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_E3F3	HDTF-RA_A3B3	0.3	0.2	0.1
		HDTF-RA_E3F3	HDTF-RA_C3D3	0.4	0.4	0.3
		HDTF-RA_E3F3	HDTF-RA_C4D4	0.4	0.4	0.4
		HDTF-RA_E3F3	HDTF-RA_E4F4	0.3	0.2	0.2
		HDTF-RA_E3F3	HDTF-RA_G3H3	1.1	0.6	0.3
		HDTF-RA_E3F3	HDTF-RA_G4H4	0.4	0.2	0.1
	FEXT	HDTF-RA_E3F3	HDTM_A3B3	0.2	0.2	0.1
		HDTF-RA_E3F3	HDTM_C3D3	0.4	0.3	0.2
		HDTF-RA_E3F3	HDTM_C4D4	0.2	0.2	0.1
		HDTF-RA_E3F3	HDTM_E4F4	0.4	0.2	0.1
		HDTF-RA_E3F3	HDTM_G3H3	1.3	1.1	0.7
		HDTF-RA_E3F3	HDTM_G4H4	0.1	0.1	0.1

Differential Crosstalk Pin Map for E3F3:

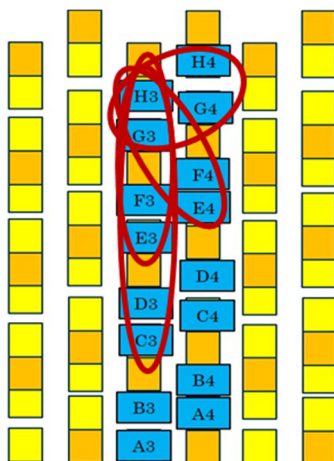


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Table 5 - Differential Crosstalk (%) – G3H3						
	Input(tr)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_G3H3	HDTF-RA_C3D3	0.3	0.2	0.1
		HDTF-RA_G3H3	HDTF-RA_E3F3	1.1	0.6	0.3
		HDTF-RA_G3H3	HDTF-RA_E4F4	0.6	0.5	0.4
		HDTF-RA_G3H3	HDTF-RA_G4H4	0.7	0.5	0.3
	FEXT	HDTF-RA_G3H3	HDTM_C3D3	0.4	0.3	0.1
		HDTF-RA_G3H3	HDTM_E3F3	1.3	1.0	0.6
		HDTF-RA_G3H3	HDTM_E4F4	0.2	0.2	0.1
		HDTF-RA_G3H3	HDTM_G4H4	1.1	0.9	0.5

Differential Crosstalk Pin Map for G3H3:

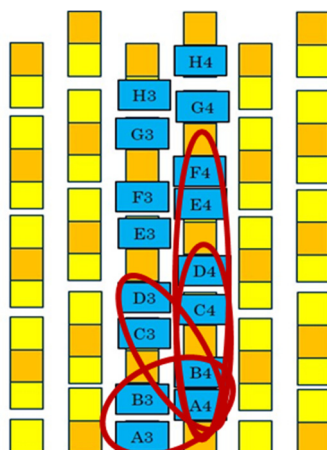


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Table 6 - Differential Crosstalk (%) – A4B4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_A4B4	HDTF-RA_A3B3	1.0	0.7	0.4
		HDTF-RA_A4B4	HDTF-RA_C3D3	0.5	0.5	0.4
		HDTF-RA_A4B4	HDTF-RA_C4D4	0.8	0.5	0.3
		HDTF-RA_A4B4	HDTF-RA_E4F4	0.3	0.2	0.1
	FEXT	HDTF-RA_A4B4	HDTM_A3B3	1.3	1.1	0.7
		HDTF-RA_A4B4	HDTM_C3D3	0.2	0.2	0.1
		HDTF-RA_A4B4	HDTM_C4D4	0.4	0.3	0.1
		HDTF-RA_A4B4	HDTM_E4F4	0.2	0.1	<0.1

Differential Crosstalk Pin Map for A4B4:

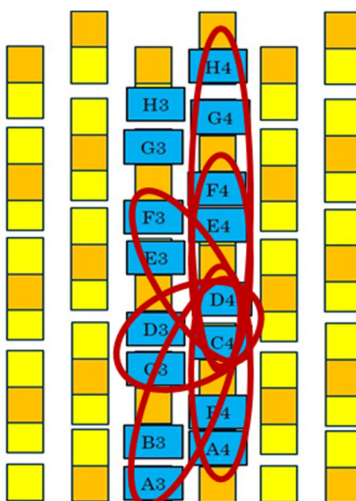


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Table 7 - Differential Crosstalk (%) – C4D4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_C4D4	HDTF-RA_A3B3	0.3	0.2	0.1
		HDTF-RA_C4D4	HDTF-RA_A4B4	0.8	0.5	0.3
		HDTF-RA_C4D4	HDTF-RA_C3D3	0.2	0.2	0.1
		HDTF-RA_C4D4	HDTF-RA_E3F3	0.4	0.4	0.4
		HDTF-RA_C4D4	HDTF-RA_E4F4	1.0	0.6	0.3
		HDTF-RA_C4D4	HDTF-RA_G4H4	0.2	0.1	0.1
	FEXT	HDTF-RA_C4D4	HDTM_A3B3	0.2	0.2	0.1
		HDTF-RA_C4D4	HDTM_A4B4	0.5	0.3	0.1
		HDTF-RA_C4D4	HDTM_C3D3	0.3	0.2	0.2
		HDTF-RA_C4D4	HDTM_E3F3	0.2	0.2	0.1
		HDTF-RA_C4D4	HDTM_E4F4	0.5	0.3	0.1
		HDTF-RA_C4D4	HDTM_G4H4	0.1	0.1	<0.1

Differential Crosstalk Pin Map for C4D4:

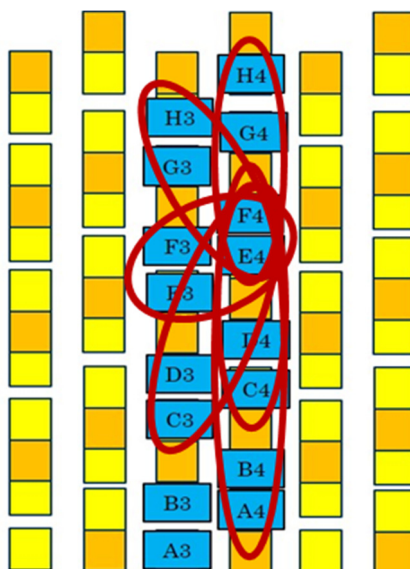


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Table 8 - Differential Crosstalk (%) – E4F4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_E4F4	HDTF-RA_A4B4	0.3	0.2	0.1
		HDTF-RA_E4F4	HDTF-RA_C3D3	0.3	0.2	0.1
		HDTF-RA_E4F4	HDTF-RA_C4D4	1.0	0.6	0.3
		HDTF-RA_E4F4	HDTF-RA_E3F3	0.3	0.2	0.2
		HDTF-RA_E4F4	HDTF-RA_G3H3	0.6	0.5	0.4
		HDTF-RA_E4F4	HDTF-RA_G4H4	0.5	0.4	0.3
	FEXT	HDTF-RA_E4F4	HDTM_A4B4	0.2	0.1	<0.1
		HDTF-RA_E4F4	HDTM_C3D3	0.2	0.1	0.1
		HDTF-RA_E4F4	HDTM_C4D4	0.6	0.3	0.1
		HDTF-RA_E4F4	HDTM_E3F3	0.4	0.4	0.3
		HDTF-RA_E4F4	HDTM_G3H3	0.2	0.2	0.1
		HDTF-RA_E4F4	HDTM_G4H4	0.5	0.4	0.3

Differential Crosstalk Pin Map for E4F4:



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Table 9 - Differential Crosstalk (%) – G4H4						
	Input(tr)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_G4H4	HDTF-RA_C4D4	0.2	0.1	0.1
		HDTF-RA_G4H4	HDTF-RA_E3F3	0.4	0.2	0.1
		HDTF-RA_G4H4	HDTF-RA_E4F4	0.5	0.4	0.3
		HDTF-RA_G4H4	HDTF-RA_G3H3	0.7	0.5	0.3
	FEXT	HDTF-RA_G4H4	HDTM_C4D4	0.2	0.1	0.1
		HDTF-RA_G4H4	HDTM_E3F3	0.1	0.1	0.1
		HDTF-RA_G4H4	HDTM_E4F4	1.0	0.7	0.3
		HDTF-RA_G4H4	HDTM_G3H3	1.2	1.0	0.6

Differential Crosstalk Pin Map for G4H4:

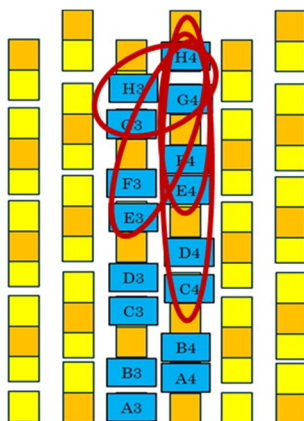


Table 10 - Propagation Delay	
Differential (A3B3)	206 ps
Differential (C3D3)	238 ps
Differential (E3F3)	272 ps
Differential (G3H3)	315 ps
Differential (A4B4)	189 ps
Differential (C4D4)	226 ps
Differential (E4F4)	266 ps
Differential (G4H4)	302 ps