

Octax®-Adapter Octax to Quadrax Adapter Assembly

ULTRA HIGH-SPEED INTERCONNECT SOLUTIONS





Many systems already exist that use Quadrax at the board level. When high-speed data was new to the aerospace marketplace, Quadrax gained spec position on many systems at the board level and became the industry standard. The Octax® Adapter bridges the technology between Quadrax and the Octax 10 Gbps Ethernet connector system utilizing an over-molded strain relief.

The Octax connector:

- » Uses innovative inserts to isolate each twisted pair and contact
- » Cable pair twist is maintained extremely close to the contact termination to minimize characteristic impedance mismatch
- » Virtually eliminates near-end crosstalk by having inserts designed to serve as isolated cells
- » Can deliver 10x the data transmission speed (10 Gbps signal or higher) and 2x the density compared to Quadrax-type solutions



FEATURES & BENEFITS

Features:	Benefits:		
Amphenol CIT's high-speed backbone allows longer runs, with more disconnects and improved data rates.	Building in system headroom		
High-speed backbone	Longer runs More disconnects Improved data rates Building in system headroom Only requires a board-level change to deliver 10g System flexibility for future upgrades Field-repairable (Simply change the card to interface to Octax-Solo and extend the 10g backbone to the box. No removal/replacement of the installed backbone required.)		
Octax technology in the disconnects	Field-terminable & reworkable interconnections Flexibility of disconnect locations Fully-customizable adapter design (Cable type & Quadrax type)		





Cable ID: OCTAX-ADP-10

Date / Time: 06/28/2018 04:41:51 PM Headroom 6.8 dB (NEXT 36-45) Test Limit: TIA Cat 6A Channel Cable Type: Cat 6 U/UTP NVP: 68.2%

Operator: -Software Version: 2.7800 Limits Version: 1.9500 Calibration Date: Main (Tester): 09/24/2009

Remote (Tester): 09/24/2009

Test Summary: PASS

Model: DTX-1800 Main S/N: 1085047 Remote S/N: 1085048 Main Adapter: DTX-CHA001 Remote Adapter: DTX-CHA001

Length (ft), Limit 328	[Pair 78]	93
Prop. Delay (ns), Limit 555	[Pair 45]	149
Delay Skew (ns), Limit 50	[Pair 45]	10
Resistance (ohms)	[Pair 12]	5.6
,		
Insertion Loss Margin (dB)	[Pair 45]	33.9
Frequency (MHz)	[Pair 45]	493.0
Limit (dB) ` `	[Pair 45]	48.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	12-78	36-45	36-78
NEXT (dB)	6.8	7.3	6.8	12.5
Freq. (MHz)	395.0	68.8	395.0	475.0
Limit (dB)	28.9	42.7	28.9	26.7
Worst Pair	36	78	45	36
PS NEXT (dB	7.8	9.4	9.3	13.9
Freq. (MHz)	392.0	68.8	500.0	475.0
Limit (dB)	26.0	39.9	23.2	23.8

Limit (dB)	26.0	39.9	23.2	23.8
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	36-45
ACR-F (dB)	13.8	13.8	13.8	16.0
Freq. (MHz)	348.0	359.0	348.0	493.0
Limit (dB)	12.4	12.2	12.4	9.4
Worst Pair	45	45	45	36
PS ACR-F (dB)	14.8	15.2	17.2	15.3
Freq. (MHz)	348.0	359.0	476.0	369.0
Limit (dB)	9.4	9.2	6.7	8.9
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-36	12-45	36-45

Limit (aB)	9.4	9.2	6.7	8.9
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-36	12-45	36-45
ACR-N (dB)	17.5	16.7	44.4	48.1
Freq. (MHz)	3.1	4.1	500.0	500.0
Limit (dB)	61.1	58.6	-23.2	-23.2
Worst Pair	36	12	45	36
PS ACR-N (dB)	18.1	16.9	43.7	48.8
Freq. (MHz)	10.0	4.1	500.0	475.0
Limit (dB)	47.5	56.1	-26.1	-24.1
PASS	MAIN	SR	MAIN	SR

PASS	MAIN	SR	MAIN	SF
Worst Pair	36	45	36	78
RL (dB)	2.3	7.0	2.3	9.3
Freq. (MHz)	480.0	51.5	480.0	342.0
Limit (dB)	6.0	14.9	6.0	6.

Compliant Network Standards: 100BASE-TX 10GBASE-T 10BASE-T 1000BASE-T ATM-51 TR-4 ATM-155 TR-16 Active

ns)	328 , Limit 555 , Limit 50 ns)	[P:	air 78] air 45] air 45] air 12]	93 149 10 5.6			93 ft
	/ largin (dB)	[P:	air 45] air 45] air 45]	33.9 493.0 48.9		re Map (T568B) SS 1 2	Insertion Loss (dB) 50 40 30
W	orst Case I			ase Value	4	4	20
3) IB)	MAIN 36-45 6.8 395.0 28.9 36 7.8 392.0 26.0 MAIN 36-45 13.8 348.0 12.4 45 14.8 348.0 9.4 MAIN	SR 12-78 7.3 68.8 42.7 78 9.4 68.8 39.9 SR 36-45 13.8 359.0 12.2 45 15.2 359.0 9.2 SR	MAIN 36-45 6.8 395.0 28.9 45 9.3 500.0 23.2 MAIN 36-45 13.8 348.0 12.4 45 17.2 476.0 6.7	SR 36-78 12.5 475.0 26.7 36 13.9 475.0 23.8 SR 36-45 16.0 493.0 9.4 36 15.3 369.0 8.9	100 80 60 40 20 0 0	250 500 750 MHz ACR-F (dB)	0 250 500 750 MHz NEXT @ Remote (dB) 80 40 20 0 250 500 750 MHz ACR-F @ Remote (dB) 80 60 40 20 0 250 500 750
iB)	12-78 17.5 3.1 61.1 36 18.1 10.0 47.5	12-36 16.7 4.1 58.6 12 16.9 4.1 56.1	12-45 44.4 500.0 -23.2 45 43.7 500.0 -26.1	36-45 48.1 500.0 -23.2 36 48.8 475.0 -24.1	80 40	MHz ACR-N (dB)	ACR-N @ Remote (dB) 80 40 0
	MAIN 36	SR 45	MAIN 36	SR 78	-40 ₀	250 500 750 MHz	-40 250 500 750 MHz
	2.3 480.0 6.0	7.0 51.5 14.9	2.3 480.0 6.0	9.3 342.0 6.7	100	RL (dB)	RL @ Remote (dB)
	ndards: 100BASE-TX 10GBASE-T ATM-155 TR-16 Active	AT 100	0BASE-T4 M-25 0VG-AnyLar -16 Passive	ı	60 40 20 0	250 500 750 MHz	60 20 0 0 250 500 750 MHz

Project: New Project

OCTAX-ADP-10_7-23-18.flw



LinkWare™ PC Version 9.9



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