RTS[™] **Digital Matrix** Intercom Systems

The RTS MCII-e Systems Controller card is the third generation controller for the ADAM Intercom System. Designed to replace the ADAMMC, it adds a number of key features. Adding Ethernet connectivity between the ADAM Intercom and the PC running AZedit, the new controller can support 32 simultaneous AZedit sessions. Using a pair of MCII-e controllers, provides full redundancy with seamless automatic change-over upon failure. The speed of Ethernet, combined with expanded memory, allows the card to fully support large matrices with reduced set-up file download time. As with all ADAM[™] Intercom family products, the MCIIe card supports all standard, hot swappable and configurable features through AZedit configuration software. It is fully compatible with all* existing ADAM systems; and cards, including the AIO-8, AIO-16, AES-3, and RVON VOIP interfaces.

MCII-e

*The new MCII-e System Controller card is only for use in the ADAM Matrix Intercom System and cannot be inter-mixed with older MC-ADAM in a given frame.

System Specifications and Features

4 Mbytes Code Flash
32MB SDRAM
8 Mbytes Configuration Flash
Connections
SCSI connector via backcard
RJ-45 Ethernet via backcard
Power : 7.5W/1.5A @ 5V
Physical: 5.687" W x 11.024" L

INSTALLATION:

The MCII-e System Controller card is hot-swappable and installs into slots 19 & 20 in an ADAM™ Intercom System.

TRUNK CAPABLE:

The MCII-e System Controller card supports ancillary data control for use with Telex® Intelligent Trunking.

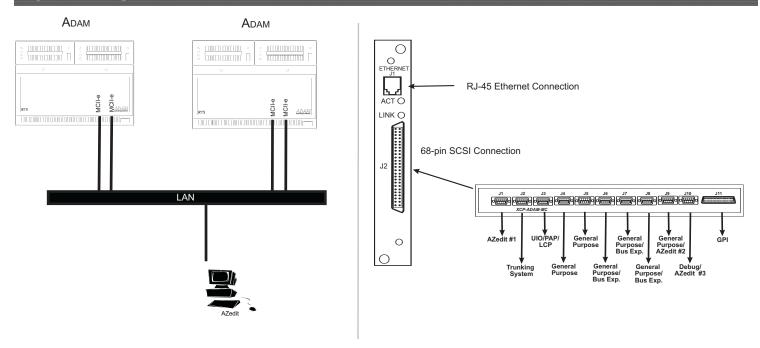
ETHERNET COMPATIBLE:

Fully Ethernet capable. the MCII-e uses standard Ethernet protocols and is compatible with 10 BASE-T or 100 BASE-TX Ethernet compliant devices and networks. Each System Controller has its own IP address to access the Ethernet.

AZ EDIT CONFIGURATIONS:

The MCII-e can connect to AZedit via Ethernet or serial (RS- 232) connections. Also, using the new Intercom Sizing Wizard in AZedit, configuring the new system controller card is as easier than ever. Controls: Reset pushbutton switch, general status indicators, a LED module for advanced monitoring features and for gathering additional card information.

System Diagram



Connector Pin-Outs

RJ-45 Ethernet Connector (via backcard)				
RJ-45 PIN	SIGNAL	DIRECTION	RJ-45 PIN	
1	TX +		1	
2	TX-		2	
3	RX +	-	3	
4			4	
5			5	
6	RX-	-	6	
7			7	
8			8	

68-	68-Pin SCSI Connector (via backcard)				
	AZEDIT #1				
68-PIN SCSI	J-1 OF				
MASTER CONTROLLER	XCP-ADAM-MC	ASSIGNMENT 2W	ASSIGNMENT 4W		
1	1	RS435 TX/RX -	RS422 RX -		
3	2	RS232C RX			
37	3	RX232C TX			
4	4	RS422 TX -	RS422 TX -		
2	5	GROUND			
2	6	GROUND			
38	7	RS422 TX +	RS422 TX +		
35	8	RS435 TX/RX +	RS422 RX +		
	9	NOT USED			
	TRUN	KING SYSTEM			
68-PIN SCSI MASTER CONTROLLER	J-2 of XCP-Adam-MC	ASSIGNMENT 2W	ASSIGNMENT 4W		
5	1	RS435 TX/RX -	RS422 RX -		
36	2	GROUND			
6	3	RS232C RX			
	4	NOT USED			
41	5	RS422 TX +	RS422 TX +		
39	6	RS435 TX/RX +	RS422 RX +		
36	7	GROUND			
40	8	RS232C TX			
7	9	RS422 TX -	RS422 TX -		
UIO-256/PAP/LCP					
	010-2	256/PAP/LCP			
68-PIN SCSI MASTER	J-3 OF XCP-ADAM-MC	ASSIGNMENT 2W	ASSIGNMENT 4W		
	J-3 OF		ASSIGNMENT 4W RS422 RX -		
MASTER CONTROLLER	J-3 of XCP-Adam-MC	ASSIGNMENT 2W			
MASTER CONTROLLER 8	J-3 OF XCP-ADAM-MC 1	ASSIGNMENT 2W RS435 TX/RX -			
MASTER CONTROLLER 8	J-3 OF XCP-ADAM-MC 1 2	ASSIGNMENT 2W RS435 TX/RX - GROUND			
MASTER CONTROLLER 8	J-3 OF XCP-ADAM-MC 1 2 3	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED			
MASTER CONTROLLER 8 9	J-3 OF XCP-ADAM-MC 1 2 3 4	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED	RS422 RX -		
MASTER CONTROLLER 8 9	J-3 OF XCP-ADAM-MC 1 2 3 4 5	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX +	RS422 RX -		
MASTER CONTROLLER 8 9 	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX +	RS422 RX -		
MASTER CONTROLLER 8 9 	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND	RS422 RX -		
MASTER <u>CONTROLLER</u> 8 9 	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED	RS422 RX -		
MASTER CONTROLLER 9 9 44 42 9 10 68-PIN SCSI MASTER	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + GROUND NOT USED RS422 TX -	RS422 RX -		
MASTER <u>CONTROLLER</u> 8 9 	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 6 7 7 8 9 9 GENEF J-4 OF	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED RS422 TX - RS422 TX - RS422 TX - RS422 TX - RS422 TX -	RS422 RX - RS422 TX + RS422 RX + RS422 RX +		
MASTER CONTROLLER 8 9 44 42 9 10 68-PIN SCSI MASTER CONTROLLER	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9 9 GENEF J-4 OF XCP-ADAM-MC	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + GROUND NOT USED RS422 TX - RS422 TX - RS425 TX - RS45 TX	RS422 RX - RS422 TX + RS422 TX + RS422 RX + RS422 TX -		
MASTER CONTROLLER 8 9 44 42 9 10 68-PIN SCSI MASTER CONTROLLER 11	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9 9 GENEF J-4 OF XCP-ADAM-MC 1	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED RS422 TX + GROUND NOT USED RS422 TX - RS422 TX - RS422 TX - RS425 TX/RX - ASSIGNMENT 2W RS435 TX/RX -	RS422 RX - RS422 TX + RS422 TX + RS422 RX + RS422 TX -		
MASTER CONTROLLER 8 9 44 42 9 10 68-PIN SCSI MASTER CONTROLLER 11	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9 GENEF J-4 OF XCP-ADAM-MC 1 2	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED RS422 TX + GROUND NOT USED RS422 TX - RS422 TX - RS435 TX/RX + GROUND RS425 TX - GROUND	RS422 RX - RS422 TX + RS422 TX + RS422 RX + RS422 TX -		
MASTER CONTROLLER 8 9 44 42 9 10 68-PIN SCSI MASTER CONTROLLER 11	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 7 8 9 GENEF 9 GENEF J-4 OF XCP-ADAM-MC 1 2 3	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED RS422 TX - RAL PURPOSE ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED	RS422 RX - RS422 TX + RS422 TX + RS422 RX + RS422 TX -		
MASTER <u>CONTROLLER</u> 8 9 44 42 9 10 68-PIN SCSI MASTER <u>CONTROLLER</u> 11 43	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 6 7 8 9 GENEF J-4 OF XCP-ADAM-MC 1 2 3 4	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED RS422 TX - RS425 TX/RX - GROUND NOT USED NOT USED NOT USED	RS422 RX - RS422 TX + RS422 TX + RS422 RX + ASSIGNMENT 4W RS422 RX-		
MASTER <u>CONTROLLER</u> 8 9 44 42 9 10 68-PIN SCSI MASTER <u>CONTROLLER</u> 11 43 46	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 7 8 9 GENEF J-4 OF XCP-ADAM-MC 1 2 3 3 4 5	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED RS422 TX - XAL PURPOSE ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED NOT USED RS422 TX +	RS422 RX - RS422 TX + RS422 TX + RS422 RX + ASSIGNMENT 4W RS422 RX- MARCONCENT 4W RS422 RX-		
MASTER CONTROLLER 8 9 44 42 9 10 68-PIN SCSI MASTER CONTROLLER 11 43 46 45	J-3 OF XCP-ADAM-MC 1 2 3 4 5 6 6 7 7 8 9 GENEF XCP-ADAM-MC 1 2 3 4 4 5 6	ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED RS422 TX + RS435 TX/RX + GROUND NOT USED ASSIGNMENT 2W RS435 TX/RX - GROUND NOT USED NOT USED NOT USED RS422 TX + RS432 TX/RX +	RS422 RX - RS422 TX + RS422 TX + RS422 RX + ASSIGNMENT 4W RS422 RX- MARCONCENT 4W RS422 RX-		

G	ENERAL PURPO	SF			
68-PIN SCSI	J-5 OF				
MASTER CONTROLLER	I I	ASSIGNMENT 2W			
13	1	RS485 TX/RX -			
14	2	GROUND			
	3	NOT USED			
	4	NOT USED			
47	5	NOT USED			
47	6	RS485 TX/RX +			
14	В	GROUND NOT USED			
	9	NOT USED			
GENER	AL PURPOSE/B				
68-PIN SCSI	J-6 OF	ASSIGNMENT 2W			
MASTER CONTROLLER	XCP-ADAM-MC				
15	1	RS485TX/RX-			
48	2	GROUND			
	3	NOT USED			
	4	NOT USED			
10	5	NOT USED			
49	6	RS485 TX/RX +			
48	7	GROUND			
	В	NOT USED			
9 NOT USED GENERAL PURPOSE/BUS EXP					
68-PIN SCSI MASTER	J-7 OF				
CONTROLLER	XCP-ADAM-MC	ASSIGNMENT 2W			
16	1	RS485 TX/RX -			
17	2	GROUND			
	3	NOT USED			
	4	NOT USED			
	5	NOT USED			
50	6	RS485 TX/RX +			
17	7	GROUND			
	В	NOT USED			
	9	NOT USED			
	AL PURPOSE/B				
68-PIN SCSI MASTER	AL PURPOSE/B				
	AL PURPOSE/B	US EXP			
68-PIN SCSI MASTER CONTROLLER	AL PURPOSE/B J-8 OF XCP-ADAM-MC	US EXP ASSIGNMENT 2W			
68-PIN SCSI MASTER CONTROLLER 18	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1	US EXP ASSIGNMENT 2W RS485 TX/RX -			
68-PIN SCSI MASTER CONTROLLER 18	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND			
68-PIN SCSI MASTER CONTROLLER 18	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED			
68-PIN SCSI MASTER CONTROLLER 18	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED			
68-PIN SCSI MASTER CONTROLLER 18 51	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED NOT USED			
68-PIN SCSI MASTER CONTROLLER 18 51 51 52	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5 6	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED NOT USED RS485 TX/RX +			
68-PIN SCSI MASTER CONTROLLER 18 51 51 52	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5 6 7	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED RS485 TX/RX + GROUND			
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68-PIN SCSI MASTER CONTROLLER 18 51 52 51 68-PIN SCSI MASTER CONTROLLER 19 20 19 20	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5 6 7 B 9 AL PURPOSE/AZ J-9 OF XCP-ADAM-MC 1 2 3 4 5 6 7 B 9 AL PURPOSE/AZ J-9 OF XCP-ADAM-MC 1 2 3 4 5 6 7 B	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED RS485 TX/RX + GROUND NOT USED NOT USED NOT USED GROUND RS232C RX NOT USED NOT USED			
68-PIN SCSI MASTER CONTROLLER 18 51 52 52 51 68-PIN SCSI MASTER CONTROLLER 19 20 19 20 19 53	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5 6 7 B 9 AL PURPOSE/AZ J-9 OF XCP-ADAM-MC 1 2 3 4 5 6 7 XCP-ADAM-MC 1 2 3 4 5 6 7 B 9 AL PURPOSE/AZ 9 9 AL PURPOSE/AZ 9 9 9 AL PURPOSE/AZ 9 9 9 9 9 9 9 9 9 9 9 9 9	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED RS485 TX/RX + GROUND NOT USED NOT USED NOT USED GROUND RS232C RX NOT USED NOT USED S22C TX NOT USED S22C TX NOT USED S22C TX			
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68-PIN SCSI MASTER CONTROLLER 18 51 51 52 51 68-PIN SCSI MASTER CONTROLLER 19 20 19 20 19 20 68-PIN SCSI MASTER CONTROLLER	AL PURPOSE/B J-8 OF XCP-ADAM-MC 2 3 4 5 6 7 8 9 AL PURPOSE/AZ J-9 OF XCP-ADAM-MC 6 7 8 9 9 PEBUGIAZEDIT # XCP-ADAM-MC 1	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED RS485 TX/RX + GROUND NOT USED NOT USED NOT USED GROUND RS232C RX NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED S ASSIGNMENT 2W NOT USED S ASSIGNMENT 2W NOT USED			
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68-PIN SCSI MASTER CONTROLLER 18 51 51 52 52 51 68-PIN SCSI MASTER CONTROLLER 19 20 19 20 19 20 53 68-PIN SCSI MASTER CONTROLLER 68-PIN SCSI MASTER CONTROLLER	AL PURPOSE/B J-8 OF XCP-ADAM-MC 1 2 3 4 5 6 7 B 9 AL PURPOSE/AZ 9 AL PURPOSE/AZ 9 AL PURPOSE/AZ 9 AL PURPOSE/AZ 9 AL PURPOSE/AZ 9 AL PURPOSE/AZ 9 9 PEBUG/AZEDIT # J-10 OF XCP-ADAM-MC 1 2 3 4 5 5 6 7 8 9 9 PEBUG/AZEDIT # 5 5 5 5 5 5 5 5 5 5 5 5 5	US EXP ASSIGNMENT 2W RS485 TX/RX - GROUND NOT USED NOT USED RS485 TX/RX + GROUND NOT USED NOT USED EDIT #2 ASSIGNMENT 2W NOT USED GROUND RS232C RX NOT USED GROUND RS232C TX NOT USED GROUND RS232C TX NOT USED GROUND RS232C TX NOT USED GROUND RS232C TX NOT USED GROUND RS232C TX NOT USED GROUND RS232C RX NOT USED GROUND RS232C RX NOT USED GROUND RS232C RX NOT USED GROUND RS232C RX NOT USED GROUND RS232C RX NOT USED GROUND			
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GPI				
68-PIN SCSI MASTER CONTROLLER	J11 OF XCP-ADAM-MC	Assignment	SIGNAL	
22	1	MI(0)	LOGICAL INPUT 0	
23	2	MI(1)	LOGICAL INPUT 1	
24	3	MI(2)	LOGICAL INPUT 2	
25	4	MI(3)	LOGICAL INPUT 3	
26	5	MI(4)	LOGICAL INPUT 4	
27	6	MI(5)	LOGICAL INPUT 5	
28	7	MI(6)	LOGICAL INPUT 6	
29	8	MI(7)	LOGICAL INPUT 7	
30	9	GROUND	GROUND	
31	10	GROUND	GROUND	
32	11	GROUND	GROUND	
33	12	GROUND	GROUND	
34	13	GROUND	GROUND	
55	14	MO(0)	LOGICAL OUTPUT 0	
56	15	M0(1)	LOGICAL OUTPUT 1	
57	16	M0(2)	LOGICAL OUTPUT 2	
58	17	MO(3)	LOGICAL OUTPUT 3	
59	18	M0(4)	LOGICAL OUTPUT 4	
60	19	MO(5)	LOGICAL OUTPUT 5	
61	20	M0(6)	LOGICAL OUTPUT 6	
62	21	M0(7)	LOGICAL OUTPUT 7	
63	22	GROUND	GROUND	
64	23	GROUND	GROUND	
65	24	GROUND	GROUND	
66	25	GROUND	GROUND	

Contact Information

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