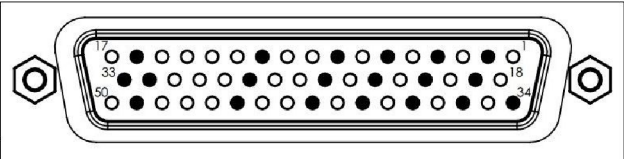


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

KEYBOARD/MOUSE
USB VERSION
(SEE J-7 FOR PS/2 VERSION)



J7: D-50: PWRBTN, DIO, PS/2, 4 x RS-232

PIN1. RS-232a RX	PIN18. RS-232a TX	PIN35. RS-232a GND
PIN2. N/C	PIN19. N/C	PIN36. N/C
PIN3. RS-232b RX	PIN20. RS-232b TX	PIN37. RS-232b GND
PIN4. N/C	PIN21. N/C	PIN38. N/C
PIN5. RS-232c RX	PIN22. RS-232c TX	PIN39. RS-232c GND
PIN6. N/C	PIN23. N/C	PIN40. N/C
PIN7. RS-232d RX	PIN24. RS-232d TX	PIN41. RS-232d GND
PIN8. N/C	PIN25. N/C	PIN42. N/C
PIN9. PS/2 Vcc	PIN26. PS/2 MOUSE CLK	PIN43. PS/2 KEYBRD CLK
PIN10. PS/2 MOUSE DATA	PIN27. PS/2 KEYBRD DATA	PIN44. PS/2 GND
PIN11. N/C	PIN28. N/C	PIN45. N/C
PIN12. DIO GND	PIN29. DIO O1	PIN46. DIO I2
PIN13. DIO Vcc	PIN30. DIO O0	PIN47. DIO I1
PIN14. DIO O3	PIN31. DIO I3	PIN48. DIO I0
PIN15. DIO O2	PIN32. N/C	PIN 49. N/C
PIN16. N/C	PIN33. N/C	
PIN17. PWRBTN+	PIN34. N/C	PIN50. PWRBTN-

MX-15 RS-422 INTERFACE			
ARS-500 J9 PIN	ARS DESCR	MX-15 J2 DESCR	MX-15 J2 PIN
3	RX+	TX+	34
4	RX-	TX-	27
2	TX+	RX+	28
1	TX-	RX-	36
5	GND	GND	35

CHOOSE ONE OR BOTH

MX-15 ETHERNET INTERFACE			
ARS-500 J14 PIN #	ARS J14 DESCR	MX-15 J3 DESCR	MX-15 J3 PIN #
1	RX+	TX+	S1
2	RX-	TX-	S3
3	TX+	RX+	S2
6	TX-	RX-	S4

TOUCH SCREEN INTERFACE

TOUCH SCREEN DESCRIPTION	ARS 500 J10 PIN #	ARS 500 J10 DESCRIPTION
RX	3	TX
TX	2	RX
GND	5	GND

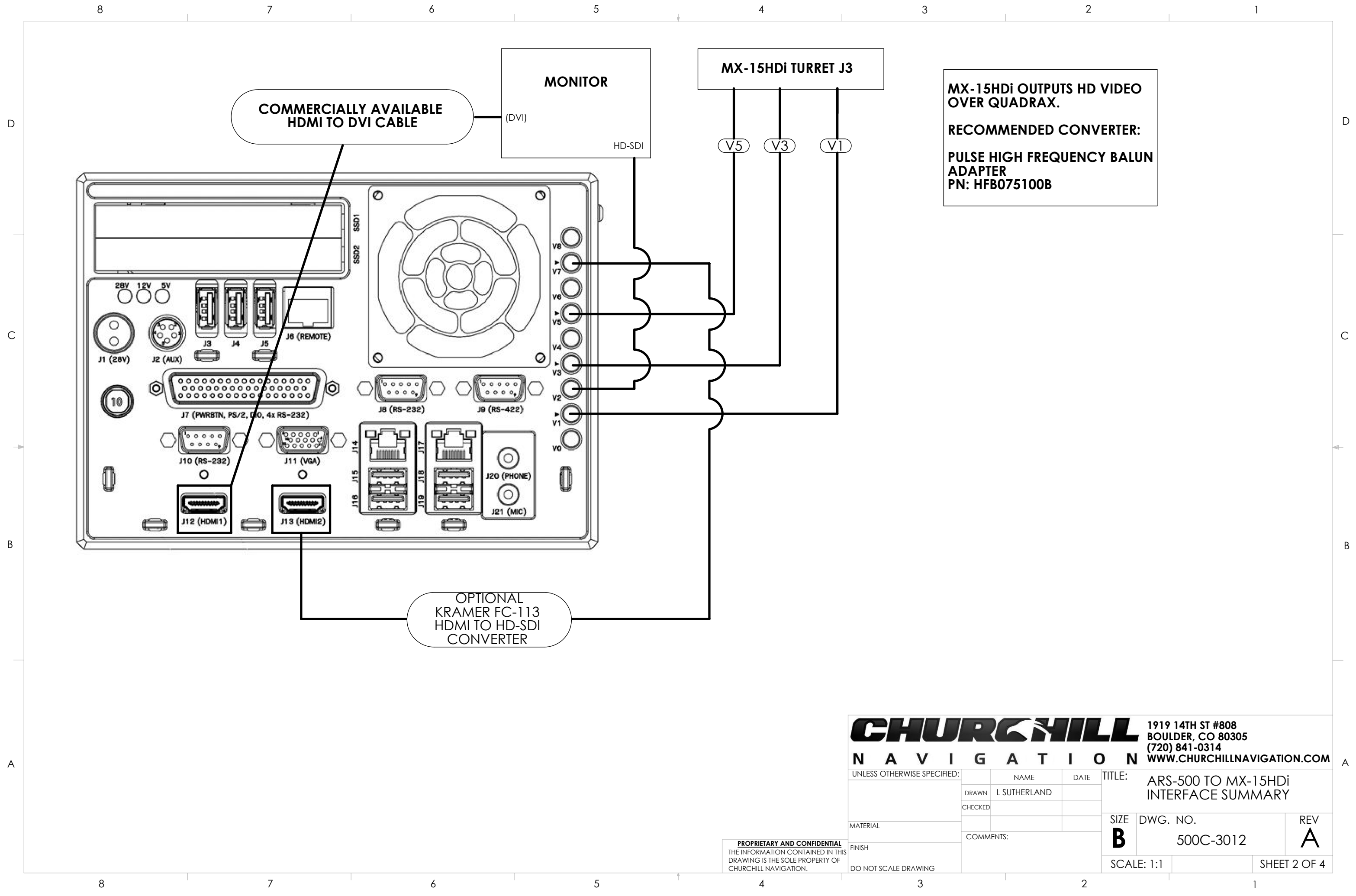
EXTERNAL STORAGE DEVICE

CHURCHILL
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1919 14TH ST #808
BOULDER, CO 80305
(720) 841-0314
WWW.CHURCHILLNAVIGATION.COM

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: ARS-500 TO MX-15 INTERFACE SUMMARY		
DRAWN		L SUTHERLAND				
CHECKED						
MATERIAL				SIZE	DWG. NO.	REV
FINISH		COMMENTS:		B	500C-3012	A
DO NOT SCALE DRAWING				SCALE: 1:1		SHEET 1 OF 4

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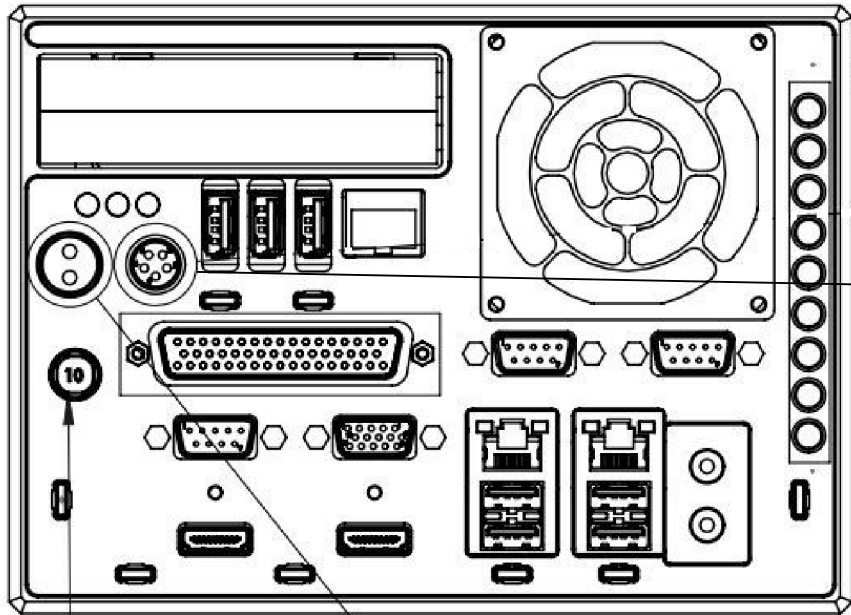
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BOULDER, CO 80305
(720) 841-0314
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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: ARS-500 TO MX-15HDi INTERFACE SUMMARY	
		DRAWN	L SUTHERLAND		
		CHECKED			
MATERIAL				SIZE	DWG. NO.
FINISH		COMMENTS:		B	500C-3012
DO NOT SCALE DRAWING				SCALE: 1:1	SHEET 2 OF 4

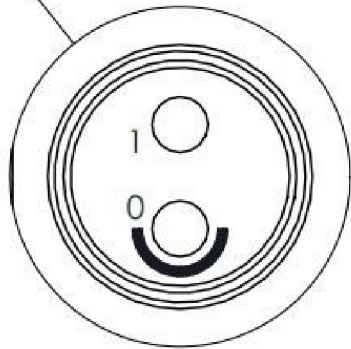
REV
A

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ARS-500 FRONT PANEL

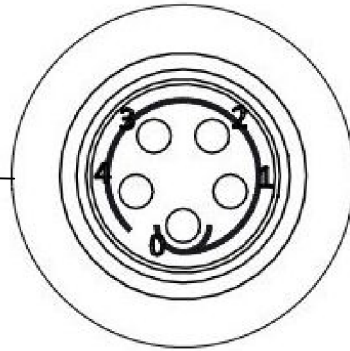


10 AMP FUSE:
28V+ LINE



28V INPUT

PIN1. V+ (18-36V)
PIN0. GND



AUX OUTPUT

PIN0. n/c
PIN1. GND
PIN2. V+ (5V)
PIN3. V+ (12V)
PIN4. GND

5 & 12 VDC OUTPUT NOTES:

1. AUX POWER OUTPUTS ARE INTERNALLY FUSED WITH SELF-RESETTING FUSES.
2. 12VDC OUTPUT IS RATED FOR 2A MAX.
3. 12VDC OUTPUT RANGES FROM 11.5-12.2VDC
4. 5VDC OUTPUT IS RATED FOR 3.5A MAX.
5. 5VDC OUTPUT RANGE IS 4.5-5.2VDC.
6. 12V LED AND 5V LED'S INDICATE VALID OUTPUTS.
7. SHORT CIRCUIT POWER MAY BE AS HIGH AS 2W.
8. RECOMMENDED WIRE SIZE: 22 AWG.

28VDC INPUT NOTES:

1. ARS-500C IS CASE GROUNDED. ALL CONNECTOR SHIELDS AND ALL GROUND PINS ARE CONTINUOUS.
2. 28VDC INPUT IS REVERSE POLARITY PROTECTED.
3. 28VDC INPUT IS FUSED FOR 10A MAX. AT 28VDC INPUT, DO NOT EXCEED 7.5A DRAW.
4. 10A CIRCUIT BREAKER: PULL OUT TO DISCONNECT SYSTEM POWER.
5. 28V LED (ON) INDICATES THAT INPUT POWER IS DETECTED.
6. RECOMMENDED WIRE SIZE FOR 28VDC: 16AWG.

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N A V I G A T I O N					
UNLESS OTHERWISE SPECIFIED:			NAME	DATE	TITLE:
DIMENSIONS ARE IN INCHES			DRAWN	L SUTHERLAND	ARS-500 TO MX-15Hdi INTERFACE SUMMARY
TOLERANCES:			CHECKED		
ANGULAR: MACH ±0.2° BEND ±1°					
TWO PLACE DECIMAL ±0.010					SIZE
THREE PLACE DECIMAL ±0.005					DWG. NO.
MATERIAL					REV
FINISH			COMMENTS:		B
DO NOT SCALE DRAWING					500C-3012
					A
			SCALE: 1:1		SHEET 3 OF 4

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AUDIO INTERFACE SUMMARY
(ARS 500 J21)

TSS- STYLE 3.5mm PLUG

(-) AUDIO

RIGHT (+) AUDIO

LEFT (+) AUDIO

- (GND) COM Audio

+ COM Audio

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: ARS-500 TO MX-15Hdi INTERFACE SUMMARY	
DIMENSIONS ARE IN INCHES		DRAWN	L SUTHERLAND	SIZE DWG. NO. REV B 500C-3012 A	
TOLERANCES:		CHECKED			
ANGULAR: MACH ±0.2° BEND ±1°					
TWO PLACE DECIMAL ±0.010					
THREE PLACE DECIMAL ±0.005				SCALE: 1:1 SHEET 4 OF 4	
MATERIAL		COMMENTS:			
FINISH					
DO NOT SCALE DRAWING					

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