

REV. A	SHEET 1 OF 8	DOCUMENT NO. CF-020011-433
REVISIONS M		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	12/18/19

DOCUMENT NO.
CF-020011-433

SHEET 1 OF 8

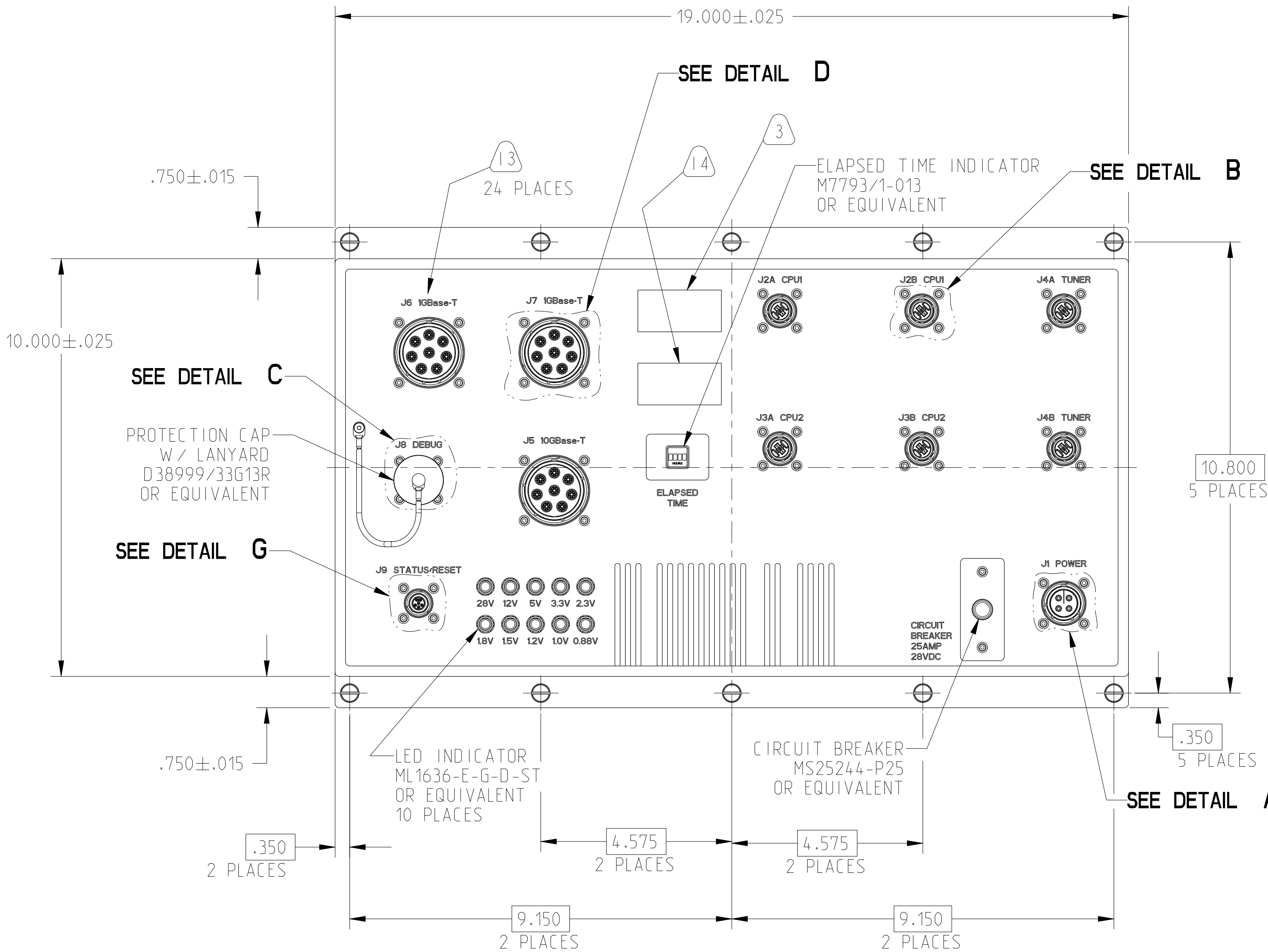
REV. A

C

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FORMAT: C-U-E-I



SEE SHEET 8

NOTES:
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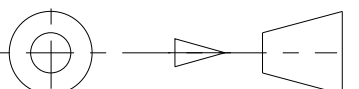
RELEASED / Dec. 19 2019, 2:06:09 PM

DOCUMENT NO. CF-020011-433

SHEET 1 OF 8

REV. A

NONE	NEXT ASSEMBLY
PRO/ENGINEER INFORMATION Pro/e Model Used: CF-020011-433-ASSEM Drawing Name: CF-020011-433	

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: .XXXX = ±.0005 ANGLES= ±2° .XXX = ±.010 .XX = ±.03 .X = ±.1 ----- DIM.& TOL. PER ASME Y14.5M; DRM PER MIL-STD-31000; OTHER Amphenol Sids. PER 9-3800 LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY 		MATERIAL SPEC.		PARTS LIST					
		NONE		APPROVALS		DATE	AMPHENOL CORPORATION 40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838		
		PROCESS SPEC.		PREPARED BY ENGINEER IN CHARGE DESIGN MANAGER DESIGN ACTIVITY GROUP		12 Feb 2019			
		SEE NOTE 6		THIRD ANGLE PROJECTION			POD BASED SWITCH BOX		
				SIZE	CAGE CODE	DOCUMENT NO.		REV.	
				C	77820	CF-020011-433		A	
				SCALE: 0.5		REF. CF-020011-000		SHEET 1 OF 8	

DOCUMENT NO.
CF-020011-433

SHEET 1 OF 8

REV. A

Eng PDM Information
For Reference Only

REVISION A

VERSION 2

C

D

4

3

2

REV. A

SHEET 2 OF 8

DOCUMENT NO. CF-020011-433

CF-020011-433

SHEET 2 OF 8

REV. A

I/O CHART

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J1 (POWER) 15-4P KEYING "N"	A	IN	28VDC_IN
	B	OUT	28VDC_RTN
	C	--	SAFETY GROUND / CHASSIS
	D	--	NOT CONNECTED
	SHELL	--	CHASSIS
J8 (DEBUG) 13-35P KEYING "N" WITH METAL CAP	1	OUT	RS232_CONSOLE_TX
	2	IN	RS232_CONSOLE_RX
	3	--	RS232_CONSOLE_GND
	4	IN	DEBUG_JTAG_TCLK
	5	OUT	DEBUG_JTAG_TDO
	6	IN	DEBUG_JTAG_TDI
	7	IN	DEBUG_JTAG_TTMS
	8	IN	DEBUG_I2C_SCL
	9	BI	DEBUG_I2C_SDA
	10	--	NOT CONNECTED
	11	--	NOT CONNECTED
	12	BI	DEBUG_CPU_USB_D+
	13	BI	DEBUG_CPU_USB_D-
	14	BI	DEBUG_CPU_1GBASET_DA+
	15		DEBUG_CPU_1GBASET_DA-
	16		DEBUG_CPU_1GBASET_DB+
	17		DEBUG_CPU_1GBASET_DB-
	18		DEBUG_CPU_1GBASET_DC+
	19		DEBUG_CPU_1GBASET_DC-
	20		DEBUG_CPU_1GBASET_DD+
	21		DEBUG_CPU_1GBASET_DD-
	22	--	NOT CONNECTED
SHELL	--	CHASSIS	
J9 (STATUS/RESET) 9-35P KEYING "N"	1	IN	SWITCHBOX_RESET
	2	OUT	POWERSUPPLY_STATUS
	3	OUT	CHASSIS_STATUS
	4	OUT	TEMPERATURE_WARNING_STATUS
	5	--	RESET_RTN
	6	--	NOT CONNECTED
	SHELL	--	CHASSIS

MAIN KEYWAY

SEE DETAIL E

DETAIL D
J5, J6 AND J7
SCALE 2.000

DETAIL E
OCTONET
SCALE 6.000

SEE DETAIL F

MAIN KEYWAY

DETAIL B
J2A, J2B, J3A, J3B, J4A AND J4B
SCALE 2.000

DETAIL F
48F MT
SCALE 6.000

MAIN KEYWAY

DETAIL G
J9
SCALE 2.000

MAIN KEYWAY

DETAIL C
J8
PROTECTION CAP NOT SHOWN FOR CLARITY
SCALE 2.000

MAIN KEYWAY

DETAIL A
J1
SCALE 2.000

SEE SHEET 8

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RELEASED / Dec. 19 2019, 2:06:09 PM

DOCUMENT NO. CF-020011-433

SHEET 2 OF 8

REV. A

SIZE C

CAGE CODE 77820

DOCUMENT NO. CF-020011-433

REV. A

SCALE: 0.5

REF: CF-020011-000

SHEET 2 OF 8

DOCUMENT NO. CF-020011-433

REV. A

SHEET 2 OF 8

VERSION 2

4				3				2				A REV. SHEET 3 OF 8CF-020011-433DOCUMENT NO.									
CF-020011-433DOCUMENT NO.	I/O CHART (CONTINUED)				I/O CHART (CONTINUED)				I/O CHART (CONTINUED)				D	C	B	A					
	CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME	CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME	CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME									
	J2A (CPU1) 11-1S 48F MT KEYING "N"	1	OUT	PORT1_10GBASESR_TX	J2B (CPU1) 11-1S 48F MT KEYING "A"	1	OUT	PORT17_10GBASESR_TX	J3A (CPU2) 11-1S 48F MT KEYING "B"	1	OUT	PORT33_10GBASESR_TX									
SHEET 3 OF 8		2		PORT2_10GBASESR_TX		2		PORT18_10GBASESR_TX		2		PORT34_10GBASESR_TX									
		3		PORT3_10GBASESR_TX		3		PORT19_10GBASESR_TX		3		PORT35_10GBASESR_TX									
		4		PORT4_10GBASESR_TX		4		PORT20_10GBASESR_TX		4		PORT36_10GBASESR_TX									
REV. A		5-8	--	NOT CONNECTED		5-8	--	NOT CONNECTED		5-8	--	NOT CONNECTED									
		9	IN	PORT4_10GBASESR_RX		9	IN	PORT20_10GBASESR_RX		9	IN	PORT36_10GBASESR_RX									
		10		PORT3_10GBASESR_RX		10		PORT19_10GBASESR_RX		10		PORT35_10GBASESR_RX									
C		11		PORT2_10GBASESR_RX		11		PORT18_10GBASESR_RX		11		PORT34_10GBASESR_RX									
		12		PORT1_10GBASESR_RX		12		PORT17_10GBASESR_RX		12		PORT33_10GBASESR_RX									
		13	OUT	PORT5_10GBASESR_TX		13	OUT	PORT21_10GBASESR_TX		13	OUT	PORT37_10GBASESR_TX									
B		14		PORT6_10GBASESR_TX		14		PORT22_10GBASESR_TX		14		PORT38_10GBASESR_TX									
		15		PORT7_10GBASESR_TX		15		PORT23_10GBASESR_TX		15		PORT39_10GBASESR_TX									
		16		PORT8_10GBASESR_TX		16		PORT24_10GBASESR_TX		16		PORT40_10GBASESR_TX									
A		17-20	--	NOT CONNECTED		17-20	--	NOT CONNECTED		17-20	--	NOT CONNECTED									
		21	IN	PORT8_10GBASESR_RX		21	IN	PORT24_10GBASESR_RX		21	IN	PORT40_10GBASESR_RX									
		22		PORT7_10GBASESR_RX		22		PORT23_10GBASESR_RX		22		PORT39_10GBASESR_RX									
SEE SHEET 8		23		PORT6_10GBASESR_RX		23		PORT22_10GBASESR_RX		23		PORT38_10GBASESR_RX									
		24		PORT5_10GBASESR_RX		24		PORT21_10GBASESR_RX		24		PORT37_10GBASESR_RX									
		25	OUT	PORT9_1GBASESX_TX		25	OUT	PORT25_1GBASESX_TX		25	OUT	PORT41_1GBASESX_TX									
NOTES:		26		PORT10_1GBASESX_TX		26		PORT26_1GBASESX_TX		26		PORT42_1GBASESX_TX									
		27		PORT11_1GBASESX_TX		27		PORT27_1GBASESX_TX		27		PORT43_1GBASESX_TX									
		28		PORT12_1GBASESX_TX		28		PORT28_1GBASESX_TX		28		PORT44_1GBASESX_TX									
THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.		29-32	--	NOT CONNECTED		29-32	--	NOT CONNECTED		29-32	--	NOT CONNECTED									
		33	IN	PORT12_1GBASESX_RX		33	IN	PORT28_1GBASESX_RX		33	IN	PORT44_1GBASESX_RX									
		34		PORT11_1GBASESX_RX		34		PORT27_1GBASESX_RX		34		PORT43_1GBASESX_RX									
RELEASED / Dec. 19 2019, 2:06:10 PM		35		PORT10_1GBASESX_RX		35		PORT26_1GBASESX_RX		35		PORT42_1GBASESX_RX									
		36		PORT9_1GBASESX_RX		36		PORT25_1GBASESX_RX		36		PORT41_1GBASESX_RX									
		37	OUT	PORT13_1GBASESX_TX		37	OUT	PORT29_1GBASESX_TX		37	OUT	PORT45_1GBASESX_TX									
DOCUMENT NO. CF-020011-433		38		PORT14_1GBASESX_TX		38		PORT30_1GBASESX_TX		38		PORT46_1GBASESX_TX									
		39		PORT15_1GBASESX_TX		39		PORT31_1GBASESX_TX		39		PORT47_1GBASESX_TX									
		40		PORT16_1GBASESX_TX		40		PORT32_1GBASESX_TX		40		PORT48_1GBASESX_TX									
SHEET 3 OF 8		41-44	--	NOT CONNECTED		41-44	--	NOT CONNECTED		41-44	--	NOT CONNECTED									
		45	IN	PORT16_1GBASESX_RX		45	IN	PORT32_1GBASESX_RX		45	IN	PORT48_1GBASESX_RX									
		46		PORT15_1GBASESX_RX		46		PORT31_1GBASESX_RX		46		PORT47_1GBASESX_RX									
REV. A		47		PORT14_1GBASESX_RX		47		PORT30_1GBASESX_RX		47		PORT46_1GBASESX_RX									
		48		PORT13_1GBASESX_RX		48		PORT29_1GBASESX_RX		48		PORT45_1GBASESX_RX									
		SHELL	--	CHASSIS		SHELL	--	CHASSIS		SHELL	--	CHASSIS									
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DOCUMENT NO. CF-020011-433				SHEET 3 OF 8				REV. A				SIZE C									
												CAGE CODE 77820									
												DOCUMENT NO. CF-020011-433									
												REV. A									
												SCALE: 0.5									
												REF: CF-020011-000									
												SHEET 3 OF 8									

4				3				2				REV. A SHEET 5 OF 8 DOCUMENT NO. CF-020011-433								
CF-020011-433	I/O CHART (CONTINUED)				I/O CHART (CONTINUED)															
	CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME	CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME												
	J5 (10GBASE-T) 25-8S KEYING "N"	A-1	BI	PORT97_10GBASET_DA+	J5 (10GBASE-T) 25-8S KEYING "N"	E-1	BI	PORT101_10GBASET_DA+												
		A-2		PORT97_10GBASET_DA-		E-2		PORT101_10GBASET_DA-												
		A-3		PORT97_10GBASET_DB+		E-3		PORT101_10GBASET_DB+												
		A-4		PORT97_10GBASET_DB-		E-4		PORT101_10GBASET_DB-												
		A-5		PORT97_10GBASET_DC+		E-5		PORT101_10GBASET_DC+												
		A-6		PORT97_10GBASET_DC-		E-6		PORT101_10GBASET_DC-												
		A-7		PORT97_10GBASET_DD+		E-7		PORT101_10GBASET_DD+												
		A-8		PORT97_10GBASET_DD-		E-8		PORT101_10GBASET_DD-												
		B-1		PORT98_10GBASET_DA+		F-1		PORT102_10GBASET_DA+												
		B-2		PORT98_10GBASET_DA-		F-2		PORT102_10GBASET_DA-												
		B-3		PORT98_10GBASET_DB+		F-3		PORT102_10GBASET_DB+												
		B-4		PORT98_10GBASET_DB-		F-4		PORT102_10GBASET_DB-												
		B-5		PORT98_10GBASET_DC+		F-5		PORT102_10GBASET_DC+												
		B-6		PORT98_10GBASET_DC-		F-6		PORT102_10GBASET_DC-												
		B-7		PORT98_10GBASET_DD+		F-7		PORT102_10GBASET_DD+												
		B-8		PORT98_10GBASET_DD-		F-8		PORT102_10GBASET_DD-												
		C-1		PORT99_10GBASET_DA+		G-1		PORT103_10GBASET_DA+												
		C-2		PORT99_10GBASET_DA-		G-2		PORT103_10GBASET_DA-												
		C-3		PORT99_10GBASET_DB+		G-3		PORT103_10GBASET_DB+												
		C-4		PORT99_10GBASET_DB-		G-4		PORT103_10GBASET_DB-												
		C-5		PORT99_10GBASET_DC+		G-5		PORT103_10GBASET_DC+												
		C-6		PORT99_10GBASET_DC-		G-6		PORT103_10GBASET_DC-												
		C-7		PORT99_10GBASET_DD+		G-7		PORT103_10GBASET_DD+												
		C-8		PORT99_10GBASET_DD-		G-8		PORT103_10GBASET_DD-												
D-1		PORT100_10GBASET_DA+		H-1		PORT104_10GBASET_DA+														
D-2		PORT100_10GBASET_DA-		H-2		PORT104_10GBASET_DA-														
D-3		PORT100_10GBASET_DB+		H-3		PORT104_10GBASET_DB+														
D-4		PORT100_10GBASET_DB-		H-4		PORT104_10GBASET_DB-														
D-5		PORT100_10GBASET_DC+		H-5		PORT104_10GBASET_DC+														
D-6		PORT100_10GBASET_DC-		H-6		PORT104_10GBASET_DC-														
D-7		PORT100_10GBASET_DD+		H-7		PORT104_10GBASET_DD+														
D-8		PORT100_10GBASET_DD-		H-8		PORT104_10GBASET_DD-														
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SIZE C	CAGE CODE 77820	DOCUMENT NO. CF-020011-433	REV. A
SCALE: 0.5		REF: CF-020011-000	SHEET 5 OF 8

DOCUMENT NO. CF-020011-433	SHEET 5 OF 8	REV. A
Eng PDM Information For Reference Only	REVISION A	VERSION 2

D

C

REV.

4				3				2				CF-020011-433 DOCUMENT NO.				SHEET 6 OF 8				A REV.											
I/O CHART (CONTINUED)				I/O CHART (CONTINUED)																											
CONNECTOR DESCRIPTION				PIN NO.				DATA DIRECTION				SIGNAL NAME				CONNECTOR DESCRIPTION				PIN NO.				DATA DIRECTION				SIGNAL NAME			
J6 (1GBASE-T) 25-8S KEYING "A"				BI				PORT105_1GBASET_DA+				PORT109_1GBASET_DA+				J6 (1GBASE-T) 25-8S KEYING "A"				BI				PORT109_1GBASET_DA+							
								PORT105_1GBASET_DA-				PORT109_1GBASET_DA-												PORT109_1GBASET_DA-							
								PORT105_1GBASET_DB+				PORT109_1GBASET_DB+												PORT109_1GBASET_DB+							
								PORT105_1GBASET_DB-				PORT109_1GBASET_DB-												PORT109_1GBASET_DB-							
								PORT105_1GBASET_DC+				PORT109_1GBASET_DC+												PORT109_1GBASET_DC+							
								PORT105_1GBASET_DC-				PORT109_1GBASET_DC-												PORT109_1GBASET_DC-							
								PORT105_1GBASET_DD+				PORT109_1GBASET_DD+												PORT109_1GBASET_DD+							
								PORT105_1GBASET_DD-				PORT109_1GBASET_DD-												PORT109_1GBASET_DD-							
								PORT106_1GBASET_DA+				PORT110_1GBASET_DA+												PORT110_1GBASET_DA+							
								PORT106_1GBASET_DA-				PORT110_1GBASET_DA-												PORT110_1GBASET_DA-							
								PORT106_1GBASET_DB+				PORT110_1GBASET_DB+												PORT110_1GBASET_DB+							
								PORT106_1GBASET_DB-				PORT110_1GBASET_DB-												PORT110_1GBASET_DB-							
								PORT106_1GBASET_DC+				PORT110_1GBASET_DC+												PORT110_1GBASET_DC+							
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								PORT106_1GBASET_DD+				PORT110_1GBASET_DD+												PORT110_1GBASET_DD+							
								PORT106_1GBASET_DD-				PORT110_1GBASET_DD-												PORT110_1GBASET_DD-							
								PORT107_1GBASET_DA+				PORT111_1GBASET_DA+												PORT111_1GBASET_DA+							
								PORT107_1GBASET_DA-				PORT111_1GBASET_DA-												PORT111_1GBASET_DA-							
								PORT107_1GBASET_DB+				PORT111_1GBASET_DB+												PORT111_1GBASET_DB+							
								PORT107_1GBASET_DB-				PORT111_1GBASET_DB-												PORT111_1GBASET_DB-							
								PORT107_1GBASET_DC+				PORT111_1GBASET_DC+												PORT111_1GBASET_DC+							
								PORT107_1GBASET_DC-				PORT111_1GBASET_DC-												PORT111_1GBASET_DC-							
								PORT107_1GBASET_DD+				PORT111_1GBASET_DD+												PORT111_1GBASET_DD+							
								PORT107_1GBASET_DD-				PORT111_1GBASET_DD-												PORT111_1GBASET_DD-							
PORT108_1GBASET_DA+				PORT112_1GBASET_DA+				PORT112_1GBASET_DA+																							
PORT108_1GBASET_DA-				PORT112_1GBASET_DA-				PORT112_1GBASET_DA-																							
PORT108_1GBASET_DB+				PORT112_1GBASET_DB+				PORT112_1GBASET_DB+																							
PORT108_1GBASET_DB-				PORT112_1GBASET_DB-				PORT112_1GBASET_DB-																							
PORT108_1GBASET_DC+				PORT112_1GBASET_DC+				PORT112_1GBASET_DC+																							
PORT108_1GBASET_DC-				PORT112_1GBASET_DC-				PORT112_1GBASET_DC-																							
PORT108_1GBASET_DD+				PORT112_1GBASET_DD+				PORT112_1GBASET_DD+																							
PORT108_1GBASET_DD-				PORT112_1GBASET_DD-				PORT112_1GBASET_DD-																							
				A OUTER				--				CHASSIS																			
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DOCUMENT NO.				SHEET 6 OF 8				REV.				A																			
CF-020011-433																															

4				3				2				1			
CF-020011-433 DOCUMENT NO.				SHEET 6 OF 8				A REV.				CF-020011-433 DOCUMENT NO.			
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SCALE: 0.5				REF: CF-020011-000				SHEET 6 OF 8							

4				3				2				A				SHEET 7 OF 8				CF-020011-433			

4

3

2

REV

A

SHEET 8 OF 8

CF-020011-433

DOCUMENT NO

CF-020011-433

REV

A

SHEET 8 OF 8

4

3

2

1

14

MARK LABEL WITH UNIQUE IDENTIFICATION (UID) PER MIL-STD-130N, CONSTRUCT #1. UID SHALL CONSIST OF MFG’S CAGE CODE (77820), MFG’S UNIQUE SERIAL NUMBER (SERIAL NUMBER PER 9-9172-3) AND CUSTOMER P/N (19CD0002-1). ATTACH ON INDICATED LOCATION.

13

STAMP IDENTIFICATION DESIGNATORS ON FRONT HOUSING IN WHITE COLOR. LOCATE APPROXIMATELY AS SHOWN. LETTER HEIGHT .150” MIN. STAMPING PER 9-3856-5.

12

ALL TX AND RX SPECIFIED ON I/O CHART ARE FROM THE PERSPECTIVE OF CF-020011-433 ASSEMBLY.

11

WEIGHT: 15 LBS MAX.

10

INDICATED SURFACE SHALL BE PAINT FREE FOR ELECTRICAL BONDING. PAINT FREE SURFACE SHALL BE COATED WITH CONDUCTIVE FINISH SUCH AS ALODINE OR IRIDITE, COLOR YELLOW.

9

ASSEMBLY HOUSINGS ARE ALUMINUM ALLOY PAINTED BLACK PER FED-STD-595, COLOR# 37038.

8

CONNECTOR SHELLS ARE ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

7

FIBER LINES SHALL BE 850nm SIGNAL COMPATIBLE 50/125 GRADED INDEX MULTIMODE FIBER.

6

PROCESS SPECS: 9-9172-3, 9-3856-5

5

MARKING ON LABEL MAY DIFFER FROM DRAWING BASED ON CUSTOMER SPECIFIC ORDER REQUIREMENTS.

4

PACKAGE PER PRODUCTION PROCESS SHEET.

3

MARK LABEL WITH “AMPHENOL”, PART NUMBER AND 7 DIGIT SERIAL NUMBER AND ATTACH ON INDICATED SURFACE. SERIAL NUMBER PER 9-9172-3.

EXAMPLE:
AMPHENOL
CF-020011-433
1950003

2

FOR INSERT ARRANGEMENT, SEE FOLLOWING DOCUMENTS.
- J1 CONNECTOR: L-21814-4
- J2A, J2B, J3A, J3B, J4A AND J4B CONNECTORS: L-38711-M1
- J5, J6 AND J7 CONNECTORS: LQ-21824-8
- J8 CONNECTOR: L-21812-35
- J9 CONNECTOR: L-21808-35

1

ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE (ESD) SENSITIVE COMPONENTS. ASSEMBLY SHALL BE HANDLED, PACKAGED, AND SHIPPED TO MEET REQUIREMENTS OF ANSI/ESD-S-20.20 AND IPC-610.

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DOCUMENT NO

CF-020011-433

REV

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SHEET 8 OF 8

CONNECTOR LIST

CONNECTOR DESIGNATOR	CONNECTOR PART NUMBER	CONTACT(S) USED	MATING CONNECTOR (OR EQUIVALENT)	MATING CONTACT (OR EQUIVALENT)
J1 POWER	CF-971354-04P	(4X) SIZE 12 PIN M39029/107-623	TV06RF-15-4S(LC)	SIZE 12 SOCKET M39029/106-617
J2A CPU1	CF-971322-01S	(1X) 48F MT FERRULE 12599 (1X) MT MALE KIT CF-198233-001	CF-594611-01P	48F MT FERRULE 12599 MT FEMALE KIT CF-198234-001
J2B CPU1	CF-971322-01H		CF-594611-01G	
J3A CPU2	CF-971322-01J		CF-594611-01I	
J3B CPU2	CF-971322-01L		CF-594611-01K	
J4A TUNER	CF-971322-01N		CF-594611-01M	
J4B TUNER	CF-971322-01T		CF-594611-01R	
J5 10GBASE-T	10-646402-612N	(8X) 21-032907-001 OCTONET, SOCKET	TV06RQF-25-8P(LC)	21-032904-021 OCTONET, PIN COMPATIBLE W / PIC E6A3824 1000HM CABLE (OR EQUIVALENT)
J6 1GBASE-T	10-646402-612A		TV06RQF-25-8PA(LC)	
J7 1GBASE-T	10-646402-612B		TV06RQF-25-8PB(LC)	
J8 DEBUG	CF-971353-22P	(22X) SIZE 22D PIN M39029/107-620	TV06RF-13-35S(LC)	SIZE 22D SOCKET M39029/106-614
J9 STATUS/RESET	CF-971351-35P	(6X) SIZE 22D PIN M39029/107-620	TV06RF-9-35S(LC)	SIZE 22D SOCKET M39029/106-614

FRONT ISOMETRIC VIEW

SCALE 0.250

REAR ISOMETRIC VIEW

SCALE 0.250

CF-020011-433

SIZE C CAGE CODE 77820 DOCUMENT NO. CF-020011-433 REV. A

SCALE: 0.5 REF: CF-020011-000 SHEET 8 OF 8