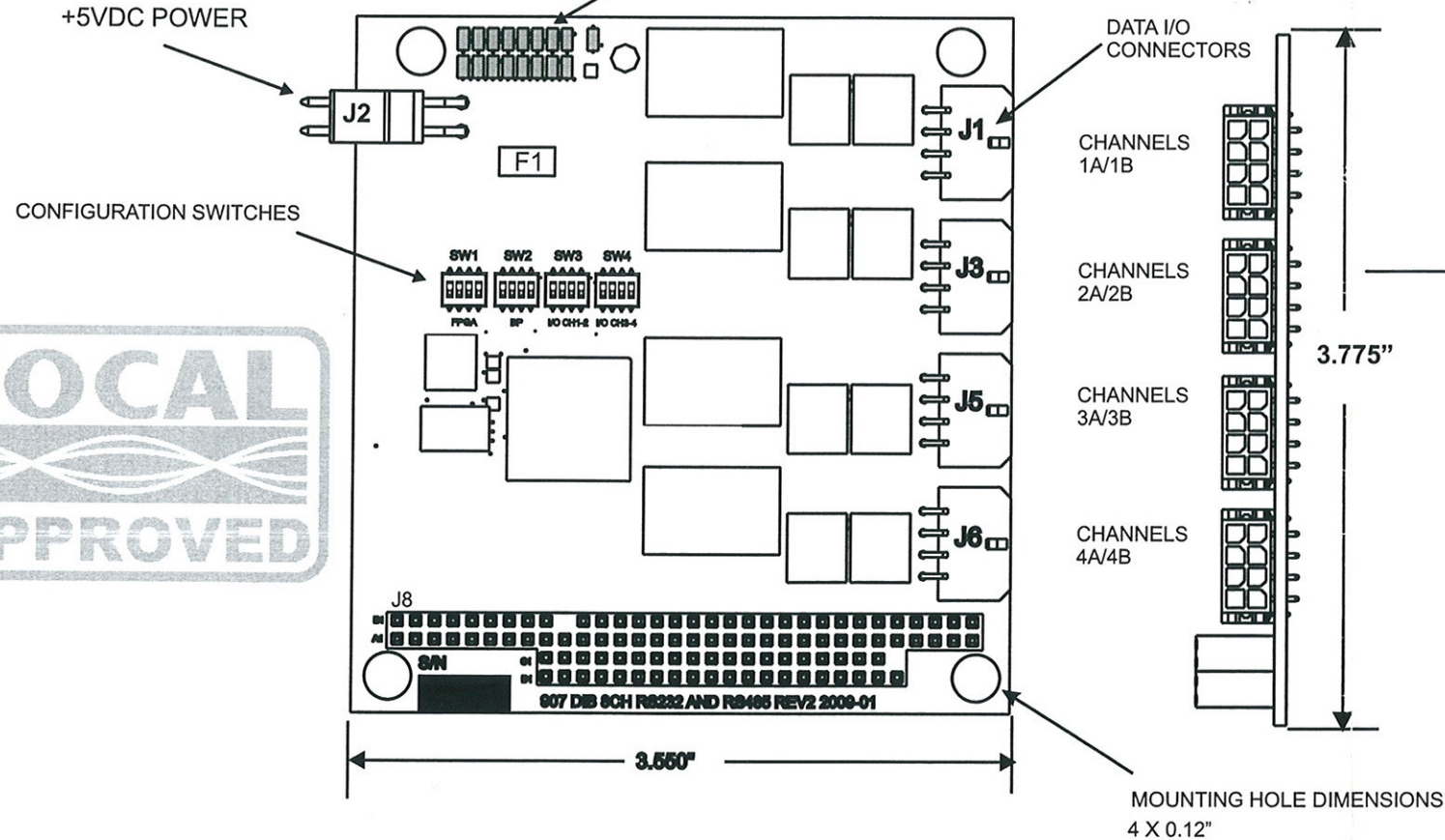


PCB : 907-0342-00
PCBA: 907-0242-00 RS232/RS485
PCBA: 907-0242-01 RS232/RS422

TOPVIEW

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NOV 30 2012



ZONE	ISSUE	DESCRIPTION	DATE	APPROVAL
	B	REFERENCE ECN # 19164	2009-03	
	C	REFERENCE ECN # 20700	2009-10	
	D	REFERENCE ECN # 20761	2009-10	
	E	REFERENCE ECN # 24891	2011-10	

TABLE 1: SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	MIN	TYP	MAX	UNITS
POWER VOLTAGE	4.5	5.0	5.5	VOLTS
POWER CURRENT	0.42	0.75	1.5	AMPS
ENVIRONMENTAL SPECIFICATIONS	MIN	TYP	MAX	UNITS
TEMPERATURE RANGE (OPERATIONAL)	-5.0	-	60.0	DEG.CELCIUS
TEMPERATURE RANGE (STORAGE)	-40.0	-	85.0	DEG.CELCIUS

TABLE 2: DATA I/O CONNECTOR PIN OUT

CONNECTOR J1,J3,J5,J6	RS232	RS422*	RS485
PIN 1	RS232-RX	RS422-RX+	
PIN 2	ISO_GND	RS422-RX-	ISO_GND
PIN 3	N/C	RS422-TX+	RS485+
PIN 4	RS232-TX	RS422-TX-	RS485-
PIN 5	RS232-RX	RS422-RX+	
PIN 6	ISO_GND	RS422-RX-	ISO_GND
PIN 7	N/C	RS422-TX+	RS485+
PIN 8	RS232-TX	RS422-TX-	RS485-

* - ONLY AVAILABLE UPON SPECIAL REQUEST FROM FACTORY

NOTES:

- THE INPUT FUSE (F1) IS LITTELFUSE 2A SLO-BLO, REPLACEABLE SURFACE MOUNT TYPE , P/N R452002
- THE BOARD IS SHIPPED WITH SWITCHES IN DEFAULT CONFIGURATION (UNLESS OTHERWISE REQUESTED)
- CHANNELS 1A AND 1B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
CHANNELS 2A AND 2B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
CHANNELS 3A AND 3B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
CHANNELS 4A AND 4B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
- DATA I/O LINES "TX" AND "RX" ARE REFERENCED TO THE BOARD ASSEMBLY SUCH THAT "TX" SIGNALS TRANSMIT FROM THE BOARD AND "RX" SIGNALS ARE RECEIVED INTO THE BOARD.
- ALTHOUGH INPUTS AND OUTPUTS ARE PROTECTED FROM ESD (ELECTRO-STATIC DISCHARGE), SOME INTERNAL CIRCUITS ARE NOT. PLEASE OBSERVE ESD PRECAUTIONS DURING HANDLING OF THE BOARDS.
- THERE ARE NO TERMINATIONS FOR THE RS422 AND RS485 PINS. TERMINATIONS CAN BE PLACED UPON REQUEST.
- THE PC/104 CONNECTOR (J8) IS A PRESS-FIT TYPE AND DOES NOT REQUIRE SOLDERING.
- THE BOARD ASSEMBLY RECEIVES ITS +5VDC POWER FROM A MOTHERBOARD VIA THE PC/104 CONNECTOR (J8), OR THROUGH J2. POWER INPUT AT J2 HAS OVER VOLTAGE AND REVERSE POLARITY PROTECTION. POWER INPUT AT J2 IS ALSO ROUTED TO J8.
- OVERALL CARD DIMENSIONS AND MOUNTING HOLES ARE PC/104 FORM FACTOR.
- RS232 CONFIGURED CHANNELS HAVE A MAXIMUM BAUDRATE OF 115KBAUD. REFER TO TABLE 3 FOR THE MAXIMUM BAUD RATE FOR RS485 CONFIGURED CHANNELS.
- RS422 AND RS485 INPUTS HAVE FAIL SAFE BIASING, WHICH ENSURE A DEFINED STATE WHEN THE INPUTS ARE OPEN OR SHORTED.
- THE RS232 INPUTS ARE CAPABLE OF INTERFACING TO TTL SIGNALS, BUT THE RS232 OUTPUTS ARE ONLY CAPABLE OF RS232 LEVELS.
- ACCESS TO SYSTEM DIAGNOSTICS CAN BE PROVIDED BY AN OPTIONAL ADD-ON DIAGNOSTIC DAUGHTERCARD WITH SERIAL AND ETHERNET OUTPUTS. (PN 907-0238-00)

TOLERANCES (EXCEPT AS NOTED)

- DIMENSIONS IN INCHES
- 3 DECIMAL PLACES +/- 0.005
- 2 DECIMAL PLACES +/- 0.010
- FRACTIONS +/- 1/32
- ANGLES +/- 0.5 DEGREE



ESD SENSITIVE PARTS MAY BE USED. TAKE PRECAUTIONS.

MATERIAL

N/A

FINISH

N/A

SCALE

NTS

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DRAWN B.MCDONALD

CHECKED

APPROVED

DATE 2008 NOV 14

REF. NO. 907-2047-00RE.des

SHEET 1 OF 2

FOCAL TECHNOLOGIES CORPORATION
77 FRAZEE AVENUE
DARTMOUTH, NS CANADA, B3B 1Z4

TITLE
8 CHANNEL SERIAL DATA CONFIGURATION

SIZE
B

TYPE
SK

DRAWING NO.
907-2047-00

ISSUE
E

TABLE 3. SW2 BACKPLANE CONFIGURATION SETTINGS

SWITCH SETTINGS	MODE	ACTIVE I/O CHANNELS	BP CHANNELS	RS485 MAX BAUD RATE / SAMPLE RATE (REFER TO NOTE 10)
1, 3, 4 ON	4:4 ROUTER	1A,2A,3A,4A	1,2,3,4	2.5MBAUD / 15MHZ
3, 4 ON		1B,2B,3B,4B	3,4,5,6	
1, 2, 4 ON	4:1 MUX / DEMUX	1B,2B,3B,4B	5	400KBAUD / 2.5MHZ
2, 4 ON		1B,2B,3B,4B	1	
1, 4 ON		1B,2B,3B,4B 1A,2A,3A,4A	1, 2	
4 ON		1B,2B,3B,4B 1A,2A,3A,4A	5, 6	
1, 2, 3 ON (DEFAULT)	8:1 MUX / DEMUX	1A THRU 4B	1	115KBAUD / 1.5MHZ
2, 3 ON		1A THRU 4B	1	
1, 3 ON		1A THRU 4B	2	
3 ON		1A THRU 4B	3	
1, 2 ON		1A THRU 4B	4	
2 ON		1A THRU 4B	5	
1 ON		1A THRU 4B	6	
ALL OFF		1A THRU 4B	6	

SWITCHES NOT DESIGNATED AS 'ON' MUST BE 'OFF'

TABLE 4: SW3 SWITCH CONIGURATION SETTINGS
I/O CHANNEL 1 AND 2

SETTING	RS232 (DEFAULT)	RS485 / 422
SW3:1 CH1A	ON	OFF
SW3:2 CH1B	ON	OFF
SW3:3 CH2A	ON	OFF
SW3:4 CH2B	ON	OFF

TABLE 5: SW4 SWITCH CONIGURATION SETTINGS
I/O CHANNEL 3 AND 4

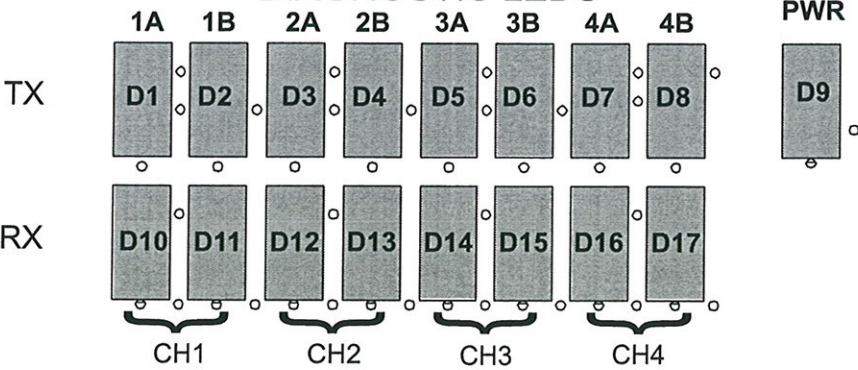
SETTING	RS232 (DEFAULT)	RS485 / 422
SW4:1 CH3A	ON	OFF
SW4:2 CH3B	ON	OFF
SW4:3 CH4A	ON	OFF
SW4:4 CH4B	ON	OFF

TABLE 6: SW1 FPGA CONNECTOR TABLE

FUNCTION	SW1:1	SW1:2	SW1:3	SW1:4
REMOTE	ON	OFF	OFF	OFF
CONSOLE	OFF	OFF	OFF	OFF



DIAGNOSTIC LEDS



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NOV 3 0 2012

TOLERANCES
(EXCEPT AS NOTED)

- 1. DIMENSIONS IN INCHES
- 2. 3 DECIMAL PLACES +/- 0.005
- 3. 2 DECIMAL PLACES +/- 0.010
- 4. FRACTIONS +/- 1/32
- 5. ANGLES +/- 0.5 DEGREE



ESD SENSITIVE PARTS
MAY BE USED. TAKE
PRECAUTIONS.

MATERIAL

N/A

FINISH

N/A

SCALE

NTS

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DATE

2008 NOV 14

REF. NO.

907-2047-00RE.des

SHEET

2 OF 2

FOCAL TECHNOLOGIES CORPORATION

77 FRAZEE AVENUE
DARTMOUTH, NS CANADA, B3B 1Z4

TITLE

8 CHANNEL SERIAL DATA
CONFIGURATION

SIZE
B

TYPE
SK

DRAWING NO.

907-2047-00

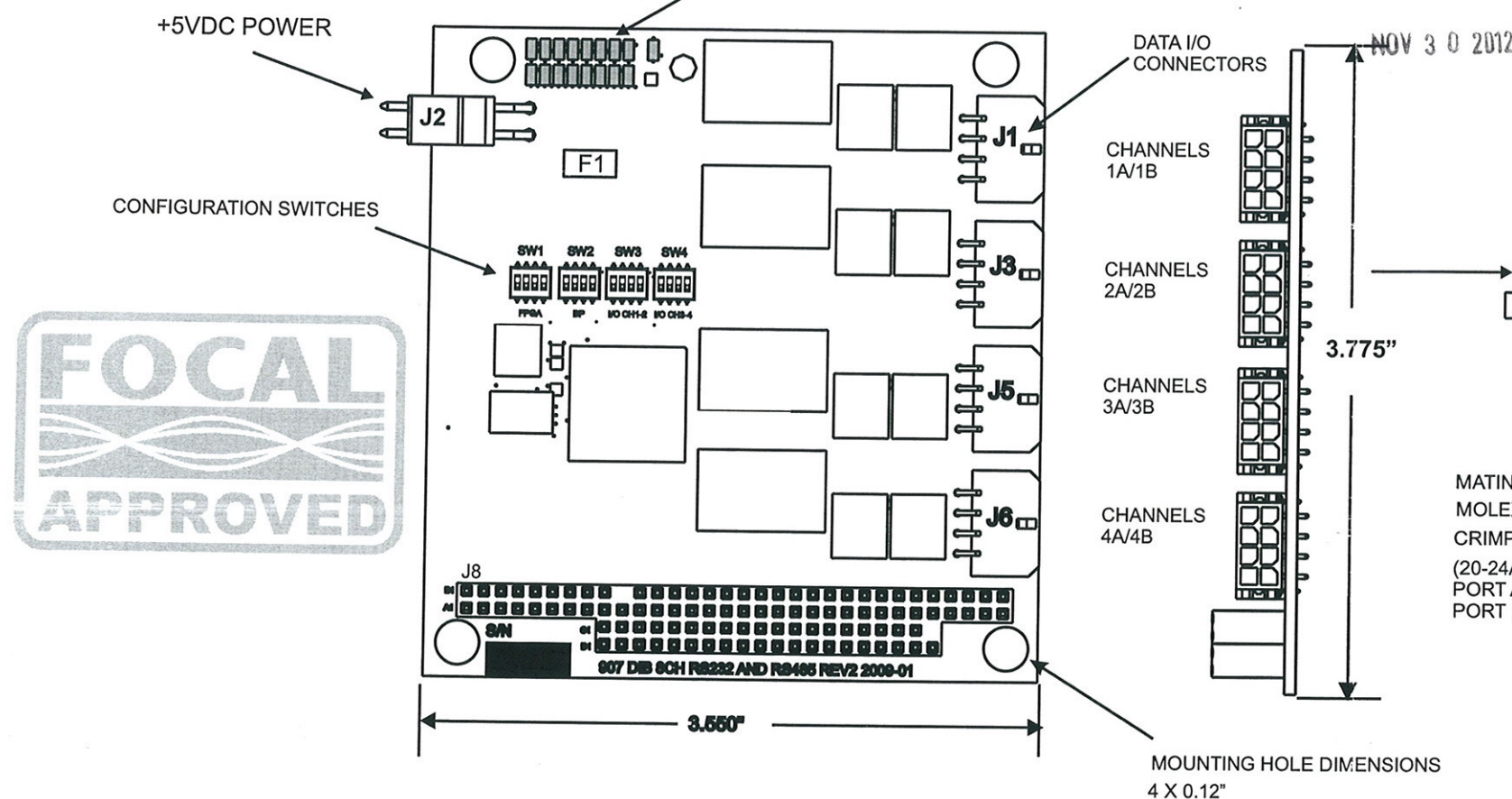
ISSUE

E

PCB : 907-0342-00
PCBA: 907-0242-00 RS232/RS485
PCBA: 907-0242-01 RS232/RS422

TOPVIEW

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NOTES:

1. THE INPUT FUSE (F1) IS LITTELFUSE 2A SLO-BLO, REPLACEABLE SURFACE MOUNT TYPE , P/N R452002
2. THE BOARD IS SHIPPED WITH SWITCHES IN DEFAULT CONFIGURATION (UNLESS OTHERWISE REQUESTED)
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CHANNELS 3A AND 3B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
CHANNELS 4A AND 4B ARE ELECTRICALLY ISOLATED (SHARE ISOLATED POWER, ISOLATED SIGNALS)
4. DATA I/O LINES "TX" AND "RX" ARE REFERENCED TO THE BOARD ASSEMBLY SUCH THAT "TX" SIGNALS TRANSMIT FROM THE BOARD AND "RX" SIGNALS ARE RECEIVED INTO THE BOARD.
5. ALTHOUGH INPUTS AND OUTPUTS ARE PROTECTED FROM ESD (ELECTRO-STATIC DISCHARGE), SOME INTERNAL CIRCUITS ARE NOT. PLEASE OBSERVE ESD PRECAUTIONS DURING HANDLING OF THE BOARDS.
6. THERE ARE NO TERMINATIONS FOR THE RS422 AND RS485 PINS. TERMINATIONS CAN BE PLACED UPON REQUEST.
7. THE PC/104 CONNECTOR (J8) IS A PRESS-FIT TYPE AND DOES NOT REQUIRE SOLDERING.
8. THE BOARD ASSEMBLY RECEIVES ITS +5VDC POWER FROM A MOTHERBOARD VIA THE PC/104 CONNECTOR (J8), OR THROUGH J2. POWER INPUT AT J2 HAS OVER VOLTAGE AND REVERSE POLARITY PROTECTION. POWER INPUT AT J2 IS ALSO ROUTED TO J8.
9. OVERALL CARD DIMENSIONS AND MOUNTING HOLES ARE PC/104 FORM FACTOR.
10. RS232 CONFIGURED CHANNELS HAVE A MAXIMUM BAUDRATE OF 115KBAUD. REFER TO TABLE 3 FOR THE MAXIMUM BAUD RATE FOR RS485 CONFIGURED CHANNELS.
11. RS422 AND RS485 INPUTS HAVE FAIL SAFE BIASING, WHICH ENSURE A DEFINED STATE WHEN THE INPUTS ARE OPEN OR SHORTED.
12. THE RS232 INPUTS ARE CAPABLE OF INTERFACING TO TTL SIGNALS, BUT THE RS232 OUTPUTS ARE ONLY CAPABLE OF RS232 LEVELS.
13. ACCESS TO SYSTEM DIAGNOSTICS CAN BE PROVIDED BY AN OPTIONAL ADD-ON DIAGNOSTIC DAUGHTERCARD WITH SERIAL AND ETHERNET OUTPUTS. (PN 907-0238-00)

ZONE	ISSUE	DESCRIPTION	DATE	APPROVAL
	B	REFERENCE ECN # 19164	2009-03	
	C	REFERENCE ECN # 20700	2009-10	
	D	REFERENCE ECN # 20761	2009-10	
	E	REFERENCE ECN # 24891	2011-10	

TABLE 1: SPECIFICATIONS

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POWER CURRENT	0.42	0.75	1.5	AMPS
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TEMPERATURE RANGE (OPERATIONAL)	-5.0	-	60.0	DEG.CELCIUS
TEMPERATURE RANGE (STORAGE)	-40.0	-	85.0	DEG.CELCIUS

TABLE 2: DATA I/O CONNECTOR PIN OUT

CONNECTOR J1,J3,J5,J6	RS232	RS422*	RS485
PIN 1	RS232-RX	RS422-RX+	
PIN 2	ISO_GND	RS422-RX-	ISO_GND
PIN 3	N/C	RS422-TX+	RS485+
PIN 4	RS232-TX	RS422-TX-	RS485-
PIN 5	RS232-RX	RS422-RX+	
PIN 6	ISO_GND	RS422-RX-	ISO_GND
PIN 7	N/C	RS422-TX+	RS485+
PIN 8	RS232-TX	RS422-TX-	RS485-

* - ONLY AVAILABLE UPON SPECIAL REQUEST FROM FACTORY

TOLERANCES (EXCEPT AS NOTED)

1. DIMENSIONS IN INCHES
2. 3 DECIMAL PLACES +/- 0.005
3. 2 DECIMAL PLACES +/- 0.010
4. FRACTIONS +/- 1/32
5. ANGLES +/- 0.5 DEGREE



ESD SENSITIVE PARTS
MAY BE USED. TAKE
PRECAUTIONS.

MATERIAL N/A
FINISH N/A
SCALE NTS

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DATE 2008 NOV 14
REF. NO. 907-2047-00RE.des
SHEET 1 OF 2

FOCAL TECHNOLOGIES CORPORATION
77 FRAZEE AVENUE
DARTMOUTH, NS CANADA, B3B 1Z4

TITLE
8 CHANNEL SERIAL DATA
CONFIGURATION

SIZE B TYPE SK
DRAWING NO. 907-2047-00
ISSUE E

TABLE 3. SW2 BACKPLANE CONFIGURATION SETTINGS

SWITCH SETTINGS	MODE	ACTIVE I/O CHANNELS	BP CHANNELS	RS485 MAX BAUD RATE / SAMPLE RATE (REFER TO NOTE 10)
1, 3, 4 ON	4:4 ROUTER	1A,2A,3A,4A	1,2,3,4	2.5MBAUD / 15MHZ
3, 4 ON		1B,2B,3B,4B	3,4,5,6	
1, 2, 4 ON	4:1 MUX / DEMUX	1B,2B,3B,4B	5	400KBAUD / 2.5MHZ
2, 4 ON		1B,2B,3B,4B	1	
1, 4 ON		1B,2B,3B,4B 1A,2A,3A,4A	1, 2	
4 ON		1B,2B,3B,4B 1A,2A,3A,4A	5, 6	
1, 2, 3 ON (DEFAULT)	8:1 MUX / DEMUX	1A THRU 4B	1	115KBAUD / 1.5MHZ
2, 3 ON		1A THRU 4B	1	
1, 3 ON		1A THRU 4B	2	
3 ON		1A THRU 4B	3	
1, 2 ON		1A THRU 4B	4	
2 ON		1A THRU 4B	5	
1 ON		1A THRU 4B	6	
ALL OFF		1A THRU 4B	6	

SWITCHES NOT DESIGNATED AS 'ON' MUST BE 'OFF'

DIAGNOSTIC LEDS

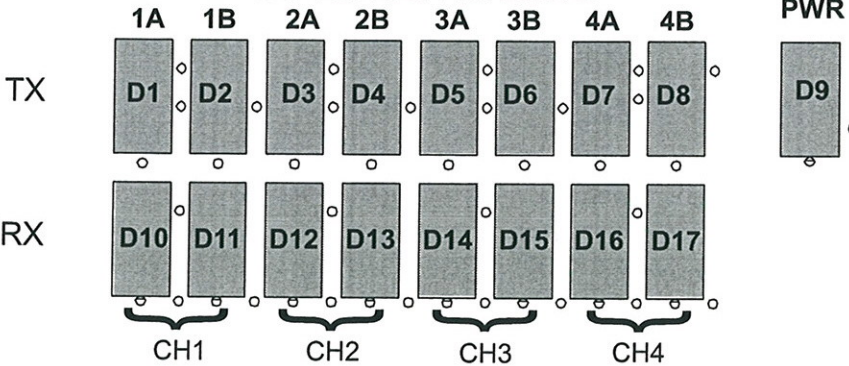


TABLE 4. SW3 SWITCH CONIGURATION SETTINGS
I/O CHANNEL 1 AND 2

SETTING	RS232 (DEFAULT)	RS485 / 422
SW3:1 CH1A	ON	OFF
SW3:2 CH1B	ON	OFF
SW3:3 CH2A	ON	OFF
SW3:4 CH2B	ON	OFF

TABLE 5: SW4 SWITCH CONIGURATION SETTINGS
I/O CHANNEL 3 AND 4

SETTING	RS232 (DEFAULT)	RS485 / 422
SW4:1 CH3A	ON	OFF
SW4:2 CH3B	ON	OFF
SW4:3 CH4A	ON	OFF
SW4:4 CH4B	ON	OFF

TABLE 6: SW1 FPGA CONNECTOR TABLE

FUNCTION	SW1:1	SW1:2	SW1:3	SW1:4
REMOTE	ON	OFF	OFF	OFF
CONSOLE	OFF	OFF	OFF	OFF



TOLERANCES
(EXCEPT AS NOTED)

- 1. DIMENSIONS IN INCHES
- 2. 3 DECIMAL PLACES +/- 0.005
- 3. 2 DECIMAL PLACES +/- 0.010
- 4. FRACTIONS +/- 1/32
- 5. ANGLES +/- 0.5 DEGREE



ESD SENSITIVE PARTS
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PRECAUTIONS.

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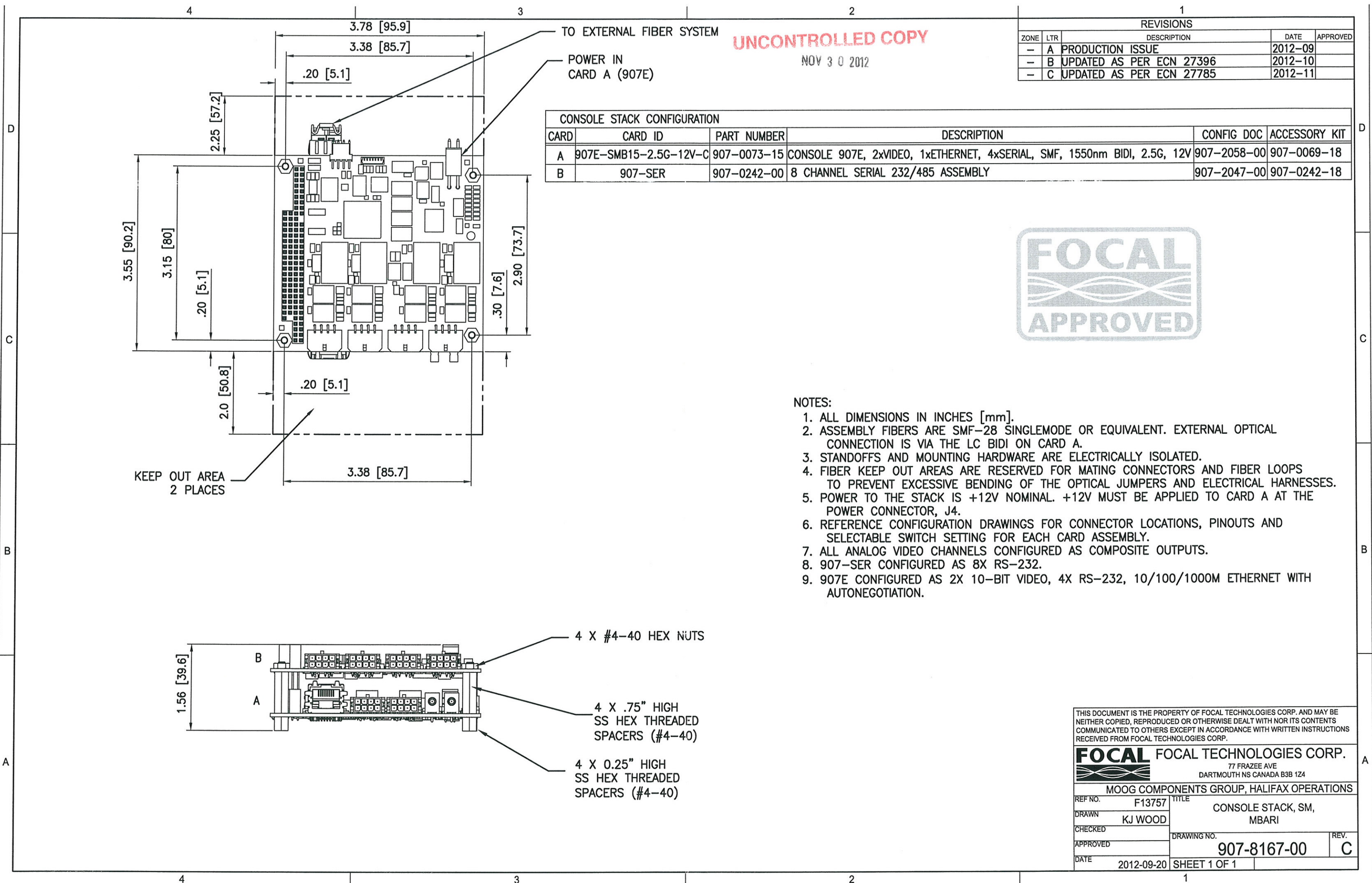
DRAWN B.MCDONALD
CHECKED
APPROVED

FOCAL TECHNOLOGIES CORPORATION
77 FRAZEE AVENUE
DARTMOUTH, NS CANADA, B3B 1Z4

TITLE
8 CHANNEL SERIAL DATA
CONFIGURATION

MATERIAL N/A
FINISH N/A
SCALE NTS
DATE 2008 NOV 14
REF. NO. 907-2047-00RE.des
SHEET 2 OF 2

SIZE B
TYPE SK
DRAWING NO. 907-2047-00
ISSUE E



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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-	A	PRODUCTION ISSUE	2012-09	
-	B	UPDATED AS PER ECN 27396	2012-10	
-	C	UPDATED AS PER ECN 27785	2012-11	

CONSOLE STACK CONFIGURATION					
CARD	CARD ID	PART NUMBER	DESCRIPTION	CONFIG DOC	ACCESSORY KIT
A	907E-SMB15-2.5G-12V-C	907-0073-15	CONSOLE 907E, 2xVIDEO, 1xETHERNET, 4xSERIAL, SMF, 1550nm BIDI, 2.5G, 12V	907-2058-00	907-0069-18
B	907-SER	907-0242-00	8 CHANNEL SERIAL 232/485 ASSEMBLY	907-2047-00	907-0242-18



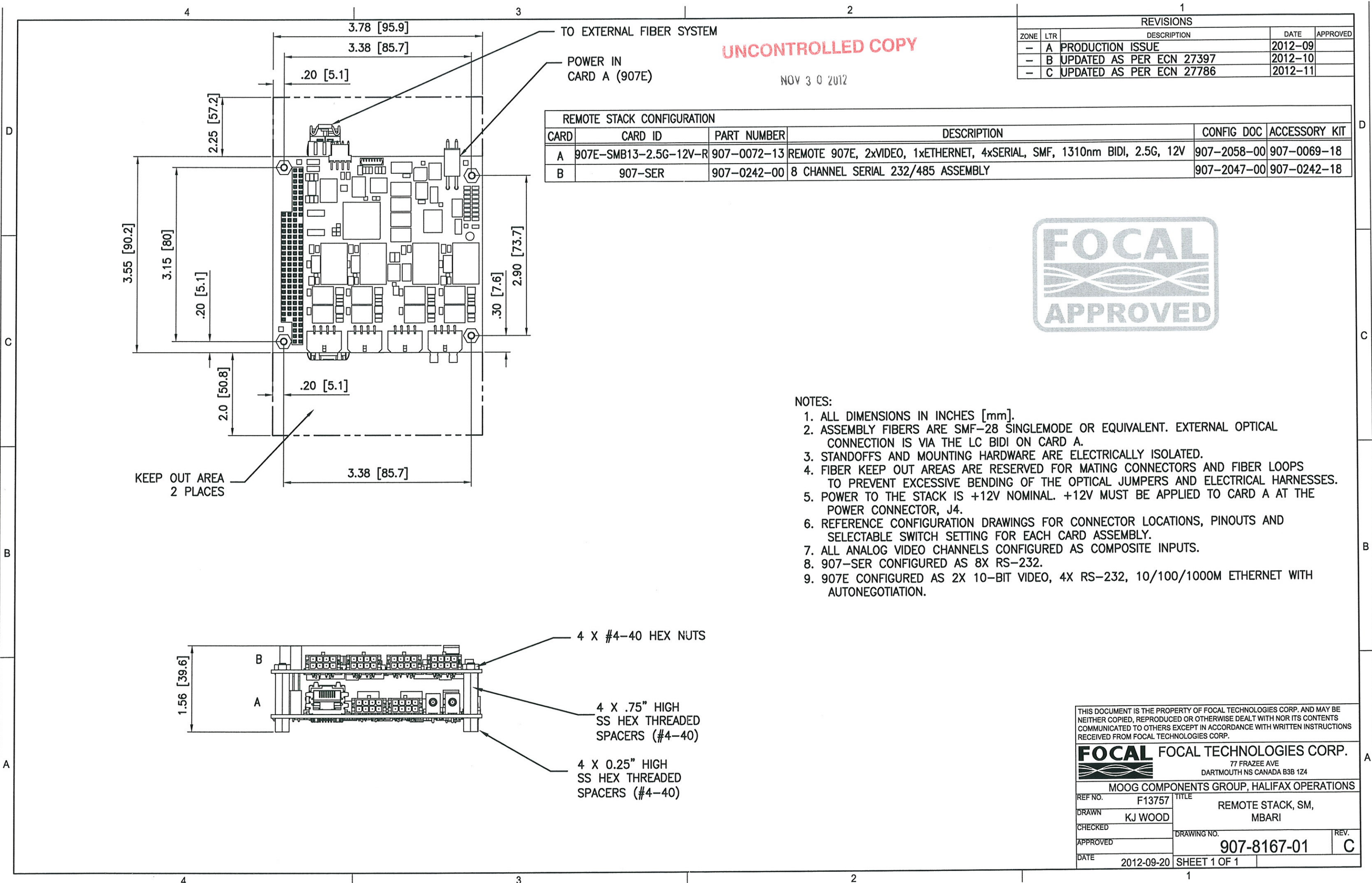
- NOTES:
1. ALL DIMENSIONS IN INCHES [mm].
 2. ASSEMBLY FIBERS ARE SMF-28 SINGLEMODE OR EQUIVALENT. EXTERNAL OPTICAL CONNECTION IS VIA THE LC BIDI ON CARD A.
 3. STANDOFFS AND MOUNTING HARDWARE ARE ELECTRICALLY ISOLATED.
 4. FIBER KEEP OUT AREAS ARE RESERVED FOR MATING CONNECTORS AND FIBER LOOPS TO PREVENT EXCESSIVE BENDING OF THE OPTICAL JUMPERS AND ELECTRICAL HARNESSSES.
 5. POWER TO THE STACK IS +12V NOMINAL. +12V MUST BE APPLIED TO CARD A AT THE POWER CONNECTOR, J4.
 6. REFERENCE CONFIGURATION DRAWINGS FOR CONNECTOR LOCATIONS, PINOUTS AND SELECTABLE SWITCH SETTING FOR EACH CARD ASSEMBLY.
 7. ALL ANALOG VIDEO CHANNELS CONFIGURED AS COMPOSITE OUTPUTS.
 8. 907-SER CONFIGURED AS 8X RS-232.
 9. 907E CONFIGURED AS 2X 10-BIT VIDEO, 4X RS-232, 10/100/1000M ETHERNET WITH AUTONEGOTIATION.

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77 FRAZEE AVE
DARTMOUTH NS CANADA B3B 1Z4

MOOG COMPONENTS GROUP, HALIFAX OPERATIONS

REF NO.	F13757	TITLE	CONSOLE STACK, SM, MBARI
DRAWN	KJ WOOD	DRAWING NO.	907-8167-00
CHECKED		REV.	C
APPROVED			
DATE	2012-09-20	SHEET 1 OF 1	



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NOV 3 0 2012

1 REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
-	A	PRODUCTION ISSUE	2012-09	
-	B	UPDATED AS PER ECN 27397	2012-10	
-	C	UPDATED AS PER ECN 27786	2012-11	

REMOTE STACK CONFIGURATION					
CARD	CARD ID	PART NUMBER	DESCRIPTION	CONFIG DOC	ACCESSORY KIT
A	907E-SMB13-2.5G-12V-R	907-0072-13	REMOTE 907E, 2xVIDEO, 1xETHERNET, 4xSERIAL, SMF, 1310nm BIDI, 2.5G, 12V	907-2058-00	907-0069-18
B	907-SER	907-0242-00	8 CHANNEL SERIAL 232/485 ASSEMBLY	907-2047-00	907-0242-18



- NOTES:
1. ALL DIMENSIONS IN INCHES [mm].
 2. ASSEMBLY FIBERS ARE SMF-28 SINGLEMODE OR EQUIVALENT. EXTERNAL OPTICAL CONNECTION IS VIA THE LC BIDI ON CARD A.
 3. STANDOFFS AND MOUNTING HARDWARE ARE ELECTRICALLY ISOLATED.
 4. FIBER KEEP OUT AREAS ARE RESERVED FOR MATING CONNECTORS AND FIBER LOOPS TO PREVENT EXCESSIVE BENDING OF THE OPTICAL JUMPERS AND ELECTRICAL HARNESSSES.
 5. POWER TO THE STACK IS +12V NOMINAL. +12V MUST BE APPLIED TO CARD A AT THE POWER CONNECTOR, J4.
 6. REFERENCE CONFIGURATION DRAWINGS FOR CONNECTOR LOCATIONS, PINOUTS AND SELECTABLE SWITCH SETTING FOR EACH CARD ASSEMBLY.
 7. ALL ANALOG VIDEO CHANNELS CONFIGURED AS COMPOSITE INPUTS.
 8. 907-SER CONFIGURED AS 8X RS-232.
 9. 907E CONFIGURED AS 2X 10-BIT VIDEO, 4X RS-232, 10/100/1000M ETHERNET WITH AUTONEGOTIATION.

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77 FRAZEE AVE
DARTMOUTH NS CANADA B3B 1Z4

MOOG COMPONENTS GROUP, HALIFAX OPERATIONS

REF NO.	F13757	TITLE	REMOTE STACK, SM, MBARI
DRAWN	KJ WOOD	DRAWING NO.	907-8167-01
CHECKED		REV.	C
APPROVED		SHEET 1 OF 1	
DATE	2012-09-20		