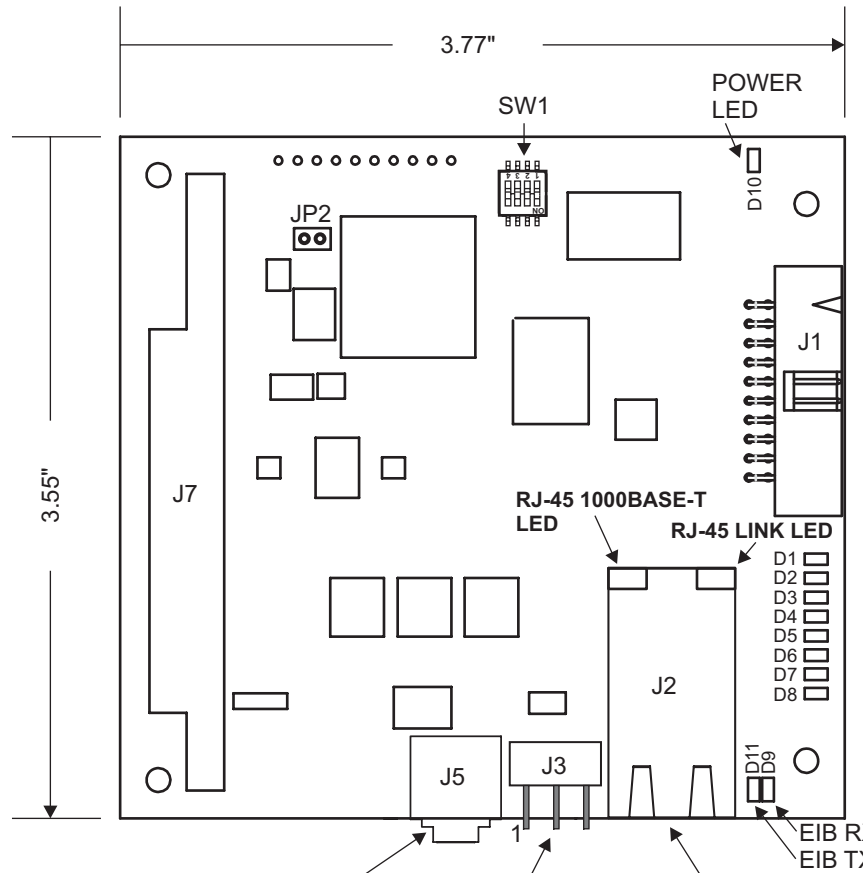


PCB: 907-0338-00  
PCBA: 907-0238-00

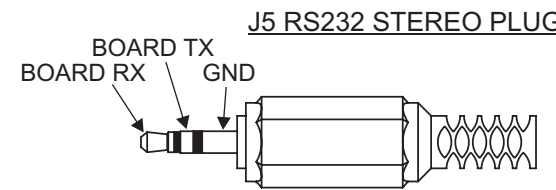
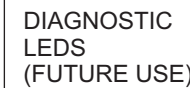
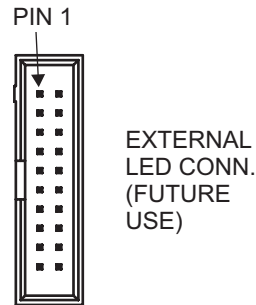


ZONE	ISSUE	DESCRIPTION	DATE	APPROVAL
	1	PRELIMINARY ISSUE	2007-10	
	2	REFERENCE ECN # 16837	2008-01	
	3	REFERENCE ECN # 17046	2008-02	
	A	REFERENCE ECN # 19840	2009-06	



**EXTERNAL CONNECTORS**

CONN.	PART NO.	PART MANUFACTURER	DESCRIPTION	MATING PART NO.(EXAMPLE)
J1	TST-110-04-G-D-RA	SAMTEC	SHROUDED HEADER	IDSD-10-S-XXXX
J2	0826-1X1T-23-F	BEL FUSE INC	ETHERNET SINGLE PORT	GENERIC RJ45
J5	SJ1-3523NG	CUI INC	3.5MM STEREO JACK	SP3-3501
J3	22-05-3031	MOLEX	RIGHT ANGLE HEADER	22-01-3037 WITH 08-50-0114 PINS



J3 RS232 MICRO PROG. PLUG

PIN	DESCRIPTION
1	GROUND
2	RS232 TX (OUTPUT)
3	RS232 RX (INPUT)

BOTTOM VIEW



**SPECIFICATIONS**

PARAMETER	MIN	TYP	MAX	UNITS
<b>ELECTRICAL</b>				
POWER VOLTAGE <sup>1</sup>	4.5	5	5.5	VOLTS
POWER CURRENT		0.3	0.5	AMPS
<b>ETHERNET</b>				
DATA RATE <sup>2</sup>	10		100	Mbps
<b>RS232</b>				
DATA RATE <sup>3</sup>		9600		BAUD
<b>ENVIRONMENTAL</b>				
TEMPERATURE (OPERATIONAL)	-10		60	DEG. C
TEMPERATURE (STORAGE)	-40		85	DEG. C

SPECIFICATION NOTES:  
 1. ENSURE TO ACCOUNT FOR ANY VOLTAGE DROP THROUGH MOTHERBOARD SUCH THAT VOLTAGE AT INPUT TO 907-DIAG IS WITHIN SPEC.  
 2. ETHERNET IS AUTONEGOTIABLE FOR 10/100 DATA RATES  
 3. RS232 ASYNCHRONOUS FORMAT IS 1 START BIT, 8 DATA BITS, 1 STOP BIT, NO PARITY, NO FLOW CONTROL

RS232 STEREO JACK INTERFACE  
 RS232 MICRO PROG INTERFACE  
 10/100/1000BT ETHERNET INTERFACE

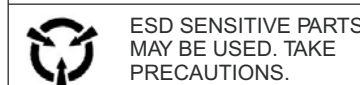
**SWITCH SETTINGS**

MAC ADDRESS	IP ADDRESS	SW1			
		1	2	3	4
00-01-02-50-60-70	192.168.0.100	OFF	OFF	OFF	OFF
00-01-02-51-61-71	192.168.0.101	ON	OFF	OFF	OFF
00-01-02-52-62-72	192.168.0.102	OFF	ON	OFF	OFF
00-01-02-53-63-73	192.168.0.103	ON	ON	OFF	OFF
00-01-02-54-64-74	192.168.0.104	OFF	OFF	ON	OFF
00-01-02-55-65-75	192.168.0.105	ON	OFF	ON	OFF
00-01-02-56-66-76	192.168.0.106	OFF	ON	ON	OFF
00-01-02-57-67-77	192.168.0.107	ON	ON	ON	OFF
USER DEFINED	USER DEFINED	X	X	X	ON

GENERAL NOTES:

- POWER IS INPUT FROM BACKPLANE CONNECTOR J7. INPUT POWER FUSE IS LITTELFUSE 2A SLO-BLO, REPLACEABLE SURFACE MOUNT TYPE, P/N R452002
- BOARD DIMENSIONS SHOWN ARE NOMINAL AND CONFORM TO THE PC/104 FORM FACTOR ONLY.
- THIS BOARD IS INTENDED FOR USE IN A MODEL 907 SYSTEM AS A DAUGHTERCARD TO PROVIDE CUSTOM DIAGNOSTICS VIA ETHERNET, OR RS232 INTERFACES. ETHERNET AND RS232 CAN BE ACTIVE AT THE SAME TIME.
- A SAMPLE GRAPHICAL USER INTERFACE (GUI) PROGRAM IS PROVIDED WITH CARD.
- REFERENCE PRODUCT MANUALS 700-0379-00 AND 700-0739-00 FOR DETAILED COMMUNICATION INFORMATION
- THE 'USER DEFINED' SWITCH SETTING HAS DEFAULT 'MAC ADDRESS' 00-01-02-50-60-70 AND 'IP ADDRESS' 192.168.0.100. THE 'USER DEFINED' REPROGRAMMED VALUES ARE STORED IN NON-VOLATILE MEMORY.

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



MATERIAL	N/A
FINISH	N/A
SCALE	NTS

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DRAWN	A CRESS
CHECKED	
APPROVED	
DATE	2007-10-17
FILENAME	907-2039-00R3.CDR
SHEET	1 OF 1

<b>FOCAL TECHNOLOGIES CORPORATION</b> 77 FRAZEE AVENUE DARTMOUTH, NS CANADA, B3B 1Z4			
<b>ETHERNET DIAGNOSTICS CARD CONFIGURATION</b>			
SIZE	TYPE	DRAWING NO.	ISSUE
<b>B</b>	<b>SK</b>	<b>907-2039-00</b>	<b>A</b>