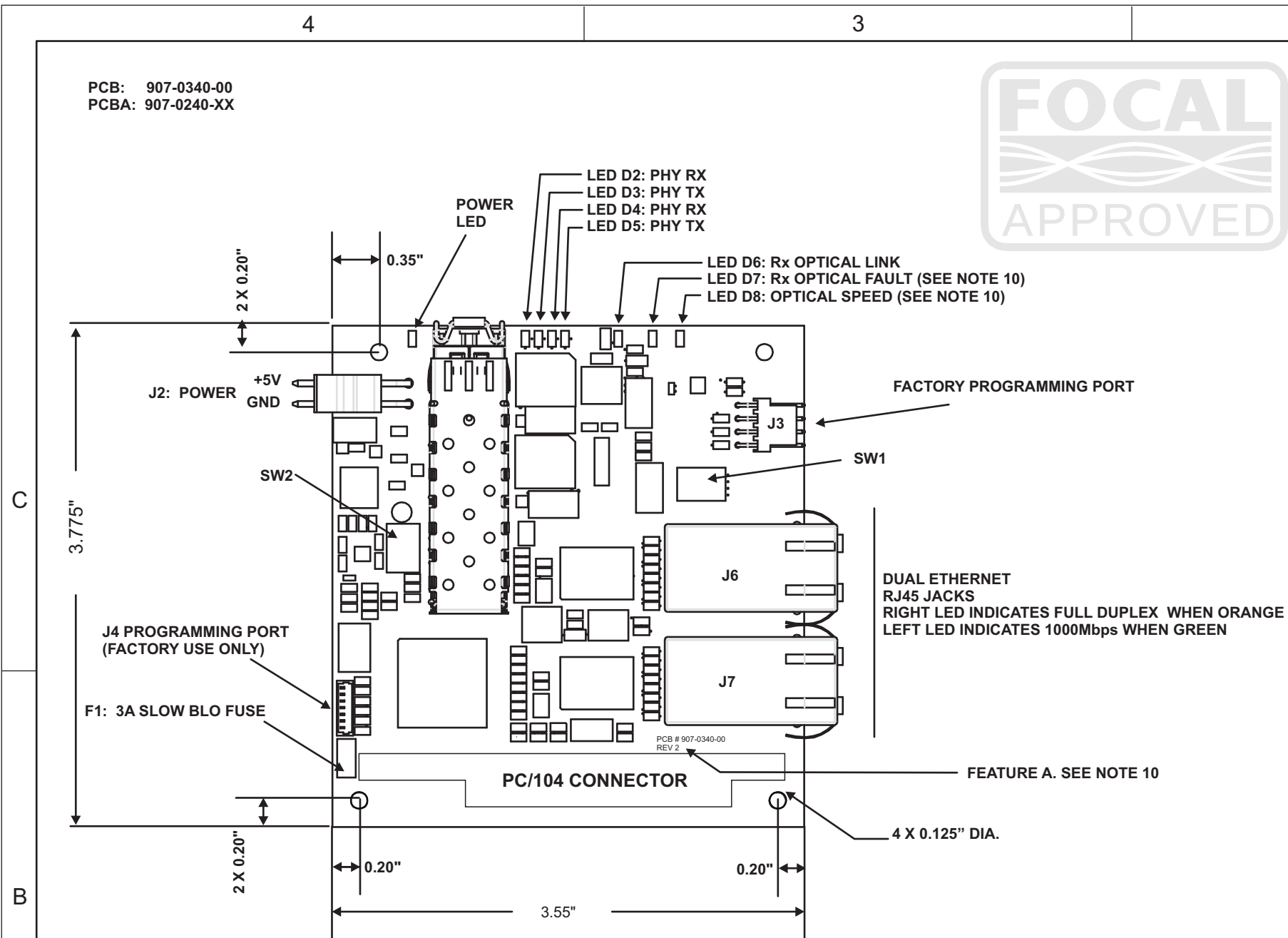




PCB: 907-0340-00
PCBA: 907-0240-XX

ZONE	ISSUE	DESCRIPTION	DATE	APPROVAL
-	B	SEE ECN # 18474	2008-09	
-	C	SEE ECN # 20173	2009-08	
-	D	SEE ECN # 23058	2010-11	
-	E	SEE ECN # 23651	2011-02	

TABLE 1: GENERAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	MIN	TYP	MAX	UNITS
POWER VOLTAGE	4.5	5.0	5.5	Volts
POWER CURRENT	0.3	1.0	1.5	Amps
ETHERNET DATA RATES (AT RJ-45)	10/100/1000 ⁽¹²⁾			Mb/s
ENVIRONMENTAL SPECIFICATIONS	MIN	TYP	MAX	UNITS
TEMPERATURE RANGE (OPERATIONAL)*	-5.0		60.0	Deg.Celsius
TEMPERATURE RANGE (STORAGE)	-40.0		85.0	Deg.Celsius
OPTICAL SPECIFICATIONS	MIN	TYP	MAX	UNITS
OPTICAL BAUDRATE (ALL UNITS)	625 ⁽¹¹⁾	1250	2500	Mbaud
OPTICAL WAVELENGTH **	850,1310/1550,CWDM ⁽¹⁴⁷¹⁻¹⁶¹¹⁾			nm

* EXTENDED TEMPERATURE OPTIONS AVAILABLE
** WAVELENGTH IS SPECIFIED BY FULL PART NUMBER

TABLE 2: SWITCH 1 CONFIGURATION SETTINGS

SW1:1	SW1:2	SW1:3	SW1:4	DESCRIPTION
ON	X	OFF	X	2.5Gb/S
OFF	X	OFF	X	1.25Gb/S
OFF	X	ON	X	625Mb/S ⁽¹¹⁾
X	ON	X	X	RESERVED
X	OFF	X	X	DEFAULT
X	X	X	ON	RESERVED
X	X	X	OFF	DEFAULT

TABLE 3: SWITCH 2 CONFIGURATION SETTINGS

SW2:1	SW2:2	SW2:3	SW2:4	DESCRIPTION
ON	X	X	X	REMOTE
OFF	X	X	X	CONSOLE
X	ON	X	X	DIAG MASTER
X	OFF	OFF	OFF	DIAG SLAVE CH 1
X	OFF	OFF	ON	DIAG SLAVE CH 2
X	OFF	ON	OFF	DIAG SLAVE CH 3
X	OFF	ON	ON	DIAG SLAVE CH 4

NOTES:

1. INPUT POWER (+5VDC) MAY BE SUPPLIED FROM THE PC104 CONNECTOR, J6, OR THE MOLEX CONNECTOR, J2. MATING CONNECTOR FOR J2 IS A MOLEX HOUSING, P/N 26-03-4020, WITH CRIMP TERMINALS, P/N 08-52-0113.
2. F1 INPUT FUSE IS A LITTELFUSE 3A SLO-BLO, P/N R452003. F1 PROTECTS FROM OVER CURRENT DRAW FROM DAUGHTER CARDS. F2 INPUT FUSE IS A LITTELFUSE 5A SLO-BLO, P/N R452005. F2 PROTECTS FROM OVER CURRENT DRAW FROM ON BOARD COMPONENTS AS WELL AS DAUGHTERCARDS. F2 IS FOUND ON THE PCB BOTTOMSIDE.
3. THE COPPER INTERFACE MEETS OR EXCEEDS THE IEEE 802.3AB STANDARD.
4. ENSURE EXTERNAL CABLES MEET OR EXCEED CAT 5E EIA/TIA 568A(B) SPECIFICATIONS.
5. OPTICAL CONFIGURATIONS AND OPTIONS ARE DEFINED IN TABLE 2.
6. 0.01% OF BANDWIDTH IS USED FOR DIAGNOSTICS, AVAILABLE THROUGH 907-0238-00 DIAGNOSTICS CARD.
7. INDICATOR LED D6 IS GREEN WHEN OPTICAL LINK IS PRESENT.
8. INDICATOR LED D7 IS RED WHEN OPTICAL ERRORS ARE RECEIVED.
9. INDICATOR LED D8 INDICATES OPTICAL LINK CONNECTION SPEED, GREEN = 2.5GBaud, OFF = 1.25GBaud OR 625Mb/s (CHECK SWITCH 1 SETTINGS).
10. ONLY APPLICABLE TO REVISION 2 AND NEWER ASSEMBLIES. SEE FEATURE "A".
11. ONLY APPLICABLE TO REVISION 2 AND NEWER ASSEMBLIES WITH CODE REVISION "D" AND NEWER. USE DIAGNOSTICS TO DETERMINE THE CODE REVISION.
12. ONLY APPLICABLE TO REVISION 2, CODE REV A1 AND NEWER ALL PREVIOUS VERSIONS ARE 1000BASE-T ONLY. USE DIAGNOSTICS TO DETERMINE THE CODE REVISION.

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.		<i>THIS DRAWING IS THE PROPERTY OF FOCAL TECHNOLOGIES CORPORATION AND MAY BE NEITHER COPIED, REPRODUCED, OR OTHERWISE DEALT WITH NOR ITS CONTENTS COMMUNICATED TO OTHERS EXCEPT IN ACCORDANCE WITH WRITTEN INSTRUCTIONS RECEIVED FROM FOCAL TECHNOLOGIES CORPORATION.</i>					
		DRAWN B.MCDONALD		FOCAL TECHNOLOGIES CORPORATION 77 FRAZEE AVENUE DARTMOUTH, NS CANADA, B3B 1Z4			
		CHECKED					
		APPROVED		TITLE DUAL GbE MEDIA CONVERTER CONFIGURATION			
DATE 2008 MAY 21							
MATERIAL N/A	REF. NO.		SIZE B	TYPE SK	DRAWING NO. 907-2040-00		ISSUE E
FINISH N/A	SHEET 1 OF 1						
SCALE NTS							