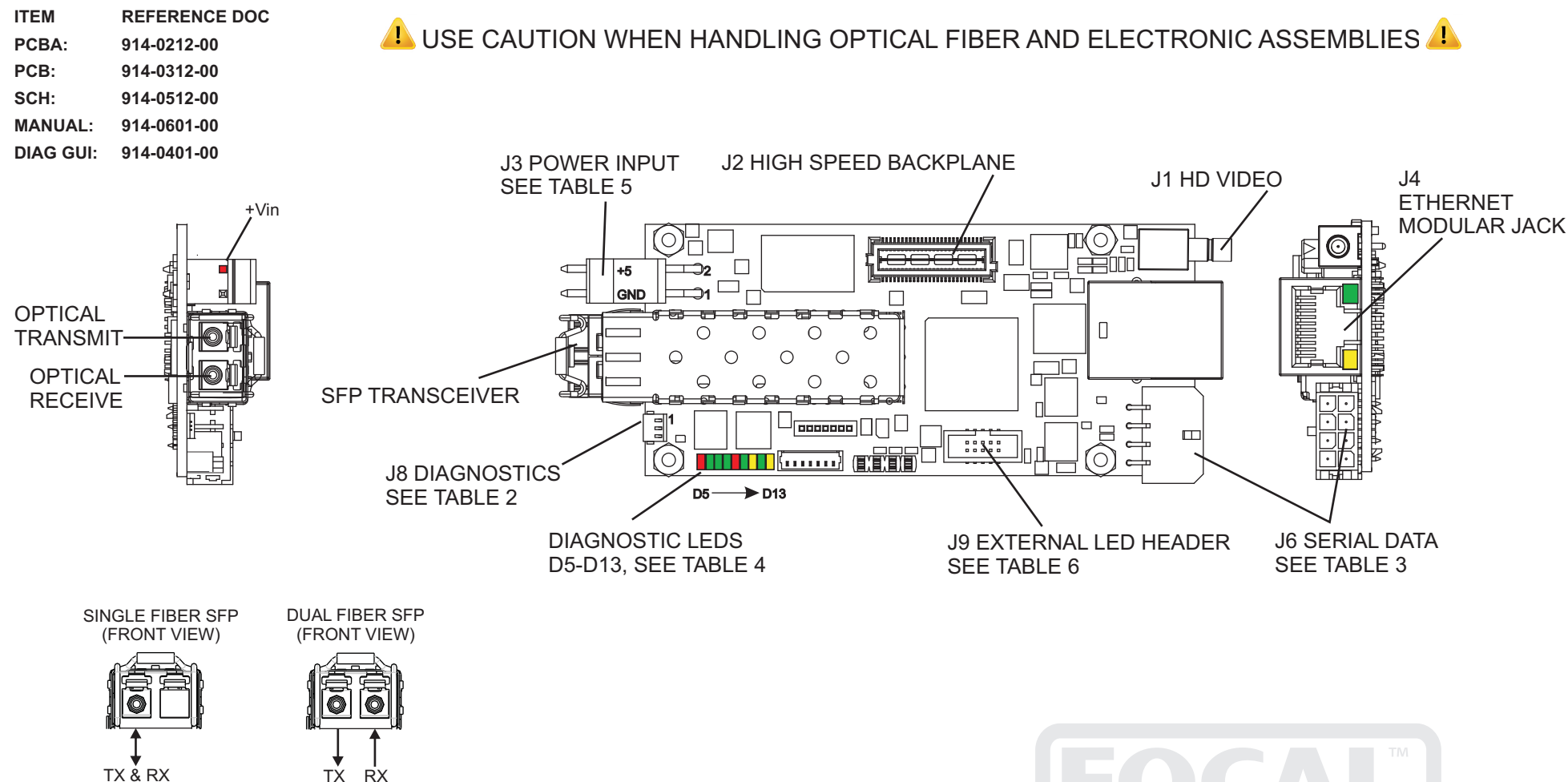


ZONE	ISSUE	DESCRIPTION	DATE
	H	SEE ECN # 37417	2017-08
	J	SEE ECN # 37707	2017-10

TABLE 1: OPERATIONAL SPECIFICATIONS

FUNCTIONAL PARAMETER		MIN	TYP	MAX	UNITS
POWER	VOLTAGE	4.5	5	13.5	V
	POWER		5	6	W
ENVIRONMENTAL TEMPERATURE	OPERATIONAL	-10		+60	°C
	STORAGE	-40		+85	°C
OPTICAL BAUDRATE		2.4		6.0	GBAUD
DIGITAL VIDEO	SD/HD/3G-SDI	270	1485	2970	Mb/s
	LATENCY*			25	us
ETHERNET	SPEED	10	100	1000	Mb/s
	LATENCY**^	6.5		2500	us
SERIAL DATA	RS232			500	KBAUD
	RS485/RS422			2500	KBAUD
	LATENCY*			50	us
DIAGNOSTICS	RS232		115		KBAUD
BACKPLANE EXPANSION CONSULT FACTORY FOR ADDITIONAL OPTIONS	ETHERNET	10	100	1000	Mb/s
	SERIAL			250	KBAUD
	OTHER			3.0	GBAUD
	COMPOSITE VIDEO		216		Mb/s

*NOT INCLUDING FIBER DELAY OF 5 μ s PER KM.
^SEE ETHERNET NOTES FOR LATENCY DETAILS



NOTES:

1. INPUT POWER MUST BE REGULATED BETWEEN +4.5VDC AND +13.5VDC. INPUT FUSE F1 IS 2A SLOW BLOW TYPE.
2. DIAGNOSTIC LED D6, WILL BE RED IF THE OVER VOLTAGE, UNDER VOLTAGE OR REVERSE VOLTAGE PROTECTION IS ACTIVATED.
3. UNITS MAY BE CONFIGURED WITH A SINGLEMODE OR MULTIMODE OPTICAL TRANSCEIVER. OTHER OPTICAL CONFIGURATIONS MAY BE AVAILABLE. CONTACT FACTORY FOR AVAILABLE OPTIONS.
4. MOUNTING HARDWARE SUCH AS SPACERS AND NUTS ARE #2-56 TYPE. 21/32" [16.7 MM] NOMINAL BETWEEN EXPANSION CARDS, 5/32" [4.0 MM] MINIMUM UNDER THE 914-HDE. THERMAL GAP MATERIAL SHOULD BE USED UNDER THE 914-HDE TO EXTRACT HEAT FROM THE CARD. CONDUCTIVE COOLING IS VIA THE STANDOFFS AND MOUNTING HOLES. ENSURE THERMALLY CONDUCTIVE MATERIALS ARE USED.
5. HD VIDEO DATA IS RECEIVED AT THE REMOTE END AND TRANSMITTED AT THE CONSOLE END VIA SMB CONNECTOR J1. HD VIDEO STANDARDS SUPPORTED ARE: SMPTE 259M-C, SMPTE 292 AND SMPTE 424M-A.
6. THE 914 DIAGNOSTIC GUI (914-0401-00) IS A CRITICAL COMPONENT TO SYSTEM SETUP, CONFIGURATION, AND HEALTH MONITORING. CONFIGURATION DATA, DIAGNOSTIC DATA AND ADVANCED ETHERNET SETTINGS AND OPTIONS CAN BE ACCESSED VIA CONNECTOR J8 AND 914 DIAGNOSTIC GUI INTERFACE.
7. EXPANSION CARDS MAY BE ADDED AS PER THE MANUAL AND CONFIGURED VIA THE 914-HDE DIAGNOSTIC CONNECTOR J8.

TOLERANCES (EXCEPT AS NOTED)		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.					
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		DRAWN B. McDONALD		MOOG FOCAL FOCAL TECHNOLOGIES CORPORATION A MOOG INC. COMPANY 77 FRAZEE AVENUE, DARTMOUTH, NS B3B 1Z4			
 ESD SENSITIVE PARTS MAY BE USED. TAKE PRECAUTIONS.		REVISED EM					
		CHECKED ACC					TITLE 914 HDE CONFIGURATION
MATERIAL N/A		APPROVED IBM					
FINISH N/A		DATE 2015-07-15		SIZE B	TYPE SK	DRAWING NO. 914-2016-00	
SCALE NTS		SHEET 1 OF 3					

D

C

B

A

D

C

B

A

4

3

2

1

4

3

2

1

D	4		3		2		1				D
	TABLE 8: ORDERING PART NUMBERS		*XX REFERS TO CWDM WAVELENGTHS. BOLD WAVELENGTHS ARE FACTORY RECOMMENDED. 27 = 1271 NM 29 = 1291 NM 31 = 1311 NM 33 = 1331 NM 35 = 1351 NM 37 = 1371 NM 39 = 1391 NM 41 = 1411 NM 43 = 1431 NM 45 = 1451 NM 47 = 1471 NM 49 = 1491 NM 51 = 1511 NM 53 = 1531 NM 55 = 1551 NM 57 = 1571 NM 59 = 1591 NM 61 = 1611 NM								