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**EVB-LAN8770-RMII
Evaluation Board
User's Guide**

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ISBN: 978-1-5224-5938-5

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Preface

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Documents are identified with a “DS” number. This number is located on the bottom of each page, in front of the page number. The numbering convention for the DS number is “DSXXXXA”, where “XXXX” is the document number and “A” is the revision level of the document.

For the most up-to-date information on development tools, see the MPLAB® IDE online help. Select the Help menu, and then Topics to open a list of available online help files.

INTRODUCTION

This chapter contains general information that will be useful to know before using the EVB-LAN8770-RMII™ Evaluation Board. Items discussed in this chapter include:

- [Document Layout](#)
- [Conventions Used in this Guide](#)
- [Warranty Registration](#)
- [The Microchip Website](#)
- [Development Systems Customer Change Notification Service](#)
- [Customer Support](#)
- [Document Revision History](#)

DOCUMENT LAYOUT

This document describes how to use the EVB-LAN8770-RMII Evaluation Board as a development tool for the LAN8770, 100BASE-T1 Ethernet Transceiver. The manual layout is as follows:

- **Chapter 1. “Overview”** – This chapter shows a brief description of the EVB-LAN8770-RMII Evaluation Board.
- **Chapter 2. “Getting Started”** – This chapter provides information about the setup and operation of the EVB-LAN8770-RMII Evaluation Board.
- **Chapter 3. “Hardware Configuration”** – This chapter provides information about the hardware configuration of the EVB-LAN8770-RMII Evaluation Board.
- **Appendix A. “Schematics”** – This appendix shows the EVB-LAN8770-RMII Evaluation Board schematics.
- **Appendix B. “Bill of Materials”** – This appendix includes the EVB-LAN8770-RMII Evaluation Board Bill of Materials.
- **Appendix C. “Silk Screens”** – This appendix shows the EVB-LAN8770-RMII Evaluation Board silk screens.

CONVENTIONS USED IN THIS GUIDE

This manual uses the following documentation conventions:

DOCUMENTATION CONVENTIONS

Description	Represents	Examples
Arial font:		
Italic characters	Referenced books	<i>MPLAB® IDE User's Guide</i>
	Emphasized text	...is the <i>only</i> compiler...
Initial caps	A window	the Output window
	A dialog	the Settings dialog
	A menu selection	select Enable Programmer
Quotes	A field name in a window or dialog	"Save project before build"
Underlined, italic text with right angle bracket	A menu path	<u><i>File>Save</i></u>
Bold characters	A dialog button	Click OK
	A tab	Click the Power tab
N'Rnnnn	A number in verilog format, where N is the total number of digits, R is the radix and n is a digit.	4'b0010, 2'hF1
Text in angle brackets < >	A key on the keyboard	Press <Enter>, <F1>
Courier New font:		
Plain Courier New	Sample source code	%fghkpg"UVCTV
	Filenames	cwvqgzge0dcv
	File paths	e<^oe3:^j
	Keywords	acuo."agpfcuo."uvcvke
	Command-line options	-Qrc-."-Qrc/
	Bit values	2."3
	Constants	2zHH."ÈCÍ
Italic Courier New	A variable argument	<i>hkng</i> 0q, where <i>hkng</i> can be any valid filename
Square brackets []	Optional arguments	oe3:"]qrvkqpu_" <i>hkng</i> "]qrvkqpu_
Curly brackets and pipe character: { }	Choice of mutually exclusive arguments; an OR selection	gttqtngxgn"}2~3;
Ellipses...	Replaces repeated text	var_name [, var_name...]
	Represents code supplied by user	void main (void) { ... }

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- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip consultant program member listing
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- **Emulators** – The latest information on Microchip in-circuit emulators. This includes the MPLAB® REAL ICE™ and MPLAB ICE 2000 in-circuit emulators.
- **In-Circuit Debuggers** – The latest information on the Microchip in-circuit debuggers. This includes MPLAB ICD 3 in-circuit debuggers and PICKIT™ 3 debug express.
- **MPLAB IDE** – The latest information on Microchip MPLAB IDE, the Windows® Integrated Development Environment for development systems tools. This list is focused on the MPLAB IDE, MPLAB IDE Project Manager, MPLAB Editor and MPLAB SIM simulator, as well as general editing and debugging features.
- **Programmers** – The latest information on Microchip programmers. These include production programmers such as MPLAB REAL ICE in-circuit emulator, MPLAB ICD 3 in-circuit debugger and MPLAB PM3 device programmers. Also included are non-production development programmers such as PICSTART® Plus and PICKIT™ 2 and 3.

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- Local Sales Office
- Field Application Engineer (FAE)
- Technical Support

Customers should contact their distributor, representative or field application engineer (FAE) for support. Local sales offices are also available to help customers. A listing of sales offices and locations is included in the back of this document.

Technical support is available through the web site at:

<http://www.microchip.com/support>

DOCUMENT REVISION HISTORY

Revisions	Section/Figure/Entry	Correction
DS50002978A (04-17-2020)	Initial release	

Chapter 1. Overview

1.1 INTRODUCTION

The EVB-LAN8770-RMII™ Evaluation Board is a plug-in card that interfaces directly with a mating Microchip host processor or controller board, such as the SAMA5D3 Ethernet Development System (EDS) Board. It features the LAN8770, a highly integrated networking device that incorporates a 100BASE-T1 physical layer transceiver (PHY). The board's PHY port is connected to a 100BASE-T1 Screw Terminal connector, and the PHY's RMII connections are brought out to a multi-pin connector.

Together, the EVB-LAN8770-RMII™ Evaluation Board and the SAMA5D3 EDS Board provide a highly flexible platform for the evaluation of basic PHY features via static Control Status Registers (CSR).

The scope of this document describes the EVB-LAN8770-RMII Evaluation Board Evaluation Board setup and its user interface features. A simplified block diagram of the board is shown in [Figure 1-1](#).

1.2 FEATURES

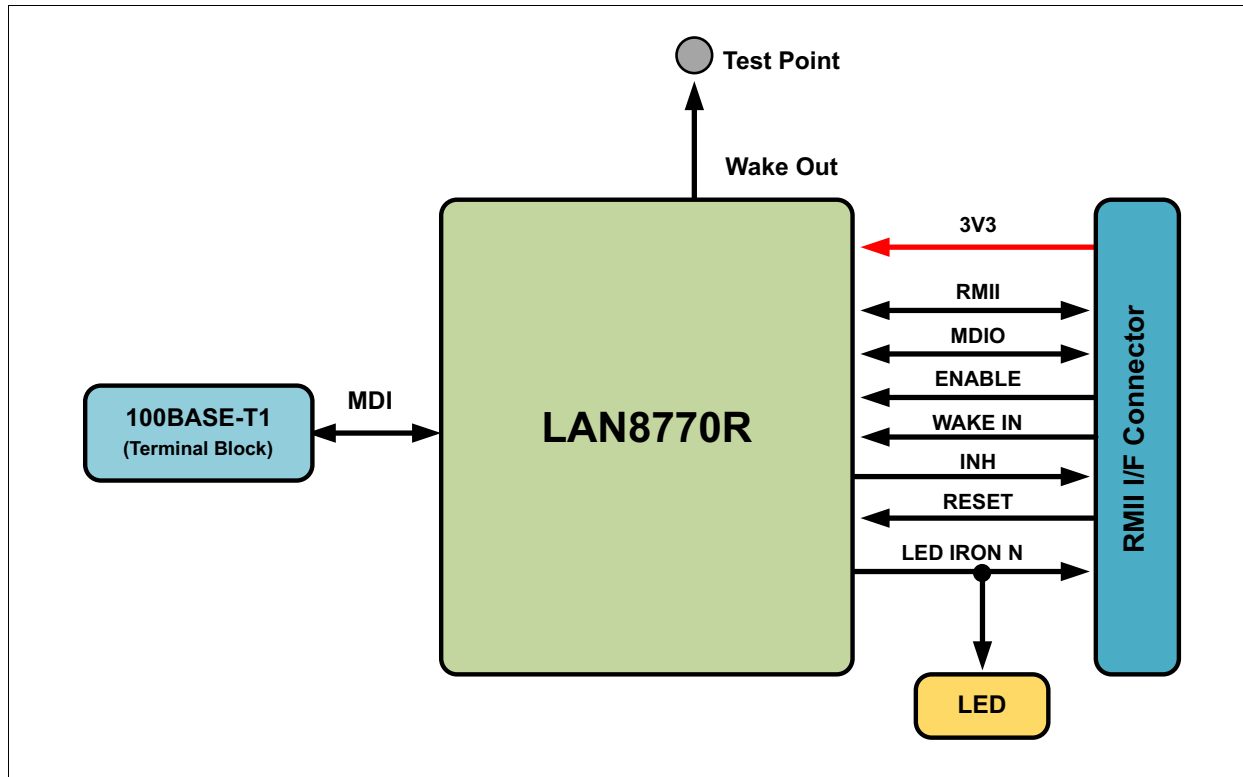
Below are the features of the EVB-LAN8770-RMII™ Evaluation Board:

- LAN8770R 100BASE-T1 PHY
- TC10 Wake/Sleep capability
- Compact EVB design to evaluate 100BASE-T1
- Xplained Ultra (latest) RMII connector to interface with Ethernet MCU board including following board-to-board signals:
 - RMII mode: 50 MHz reference clock from MCU to PHY
 - MDC/MDIO
 - PHY Reset
 - PHY Interrupt
 - WAKE_IN: Connect to GPIO on MCU
 - ENABLE: Connect to GPIO on MCU
- 3.3V VDD supply and TC10 V battery supply
- 2-pin screw terminal connector for 100BASE-T1 physical interface
- Single LED indicator for speed/link/activity status

1.3 BLOCK DIAGRAM

[Figure 1-1](#) illustrates the simplified block diagram of the EVB-LAN8770-RMII™ Evaluation Board:

FIGURE 1-1: BLOCK DIAGRAM



1.4 REFERENCES

Concepts and materials available in the following documents may be helpful when reading this document. Visit www.microchip.com for the latest documentation:

- *SAMA5D3 Ethernet Development System Board User's Guide*
- *MIC33153 4 MHz 1.2A Internal Inductor PWM Buck Regulator with HyperLight Load® and Power Good Data Sheet*
- *MIC5207 180 mA Low-Noise LDO Regulator Data Sheet*

1.5 ACRONYMS AND DEFINITIONS

Table 1-1 shows the list of terms used in this document and their definitions:

TABLE 1-1: ACRONYMS AND DEFINITIONS

Acronym	Definition
EDS	Ethernet Development System
PHY	Physical layer transceiver
MDI	Media-Dependent Interface
MDIO	Management Data Input/Output
MDC	Management Data Clock
RMII™	Reduced Media-Independent Interface

Chapter 2. Getting Started

2.1 INTRODUCTION

The EVB-LAN8770-RMII™ Evaluation Board is designed as a plug-in card to interface directly with a mating Microchip host processor or controller board, such as the SAMA5D3-EDS Board. The SAMA5D3-EDS Board supplies full power as well as provides full register access and configuration via MDIO/MDC bus management.

2.2 QUICK START

The following are the jumpers needed for the SAMA5D3-EDS to operate with the EVB-LAN8770-RMII™ Evaluation Board:

- J2, 3.3V setting
- J3
- J4, sel1 to PU
- J7
- J13
- J17
- J20

Connect the EVB-LAN8770-RMII Evaluation Board to the SAMA5D3-EDS J6 Header. Connect 12V Supply to the SAMA5D3-EDS, and the initial setup is complete.

The following are the jumpers needed for the EVB-LAN7800 RMII Evaluation Board:

- J5 closed for master, J5 open for slave
- J6

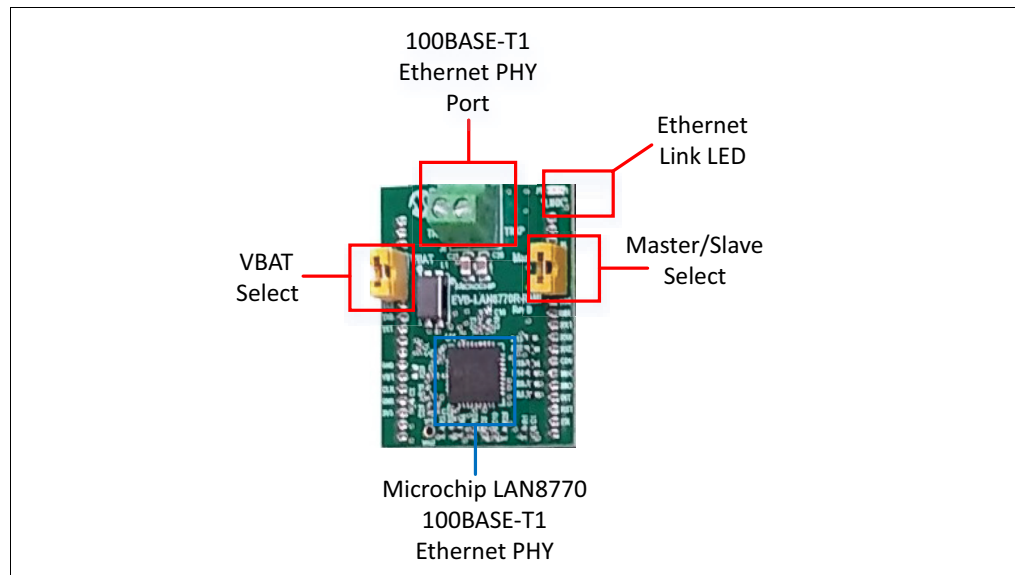
NOTES:

Chapter 3. Hardware Configuration

3.1 HARDWARE CONFIGURATION OPTIONS

Figure 3-1 shows the top view of the EVB-LAN8770-RMII™ Evaluation Board.

FIGURE 3-1: EVB-LAN8770-RMII™ EVALUATION BOARD TOP VIEW WITH CALLOUTS



3.1.1 Power Source

The EVB-LAN8770-RMII Evaluation Board is completely bus-powered from its mating Microchip host processor or control board. Refer to [Figure 3-1](#) and the board schematics in [Figure A-1](#).

3.1.2 Clock

The EVB-LAN8770-RMII Evaluation board utilizes a 25 MHz crystal to generate the input reference clock for the LAN8770 device. See [Figure 3-1](#) and the board schematics in [Figure A-1](#) for details.

3.1.3 Board Features and Configuration

Figure 3-1 displays the top view of the EVB-LAN8770-RMII Evaluation Board with key features, jumpers, power and headers which are highlighted in red. The Microchip components are highlighted in blue.

3.1.3.1 VBAT

VBAT can be sourced from an external processor board or SoC (System on a Chip) with 3.3V supply by populating a jumper on VBAT Select (J6). If no jumper is populated, an external supply can source the VBAT voltage. If Wake/Sleep control is not needed, J6 should be populated with a jumper.

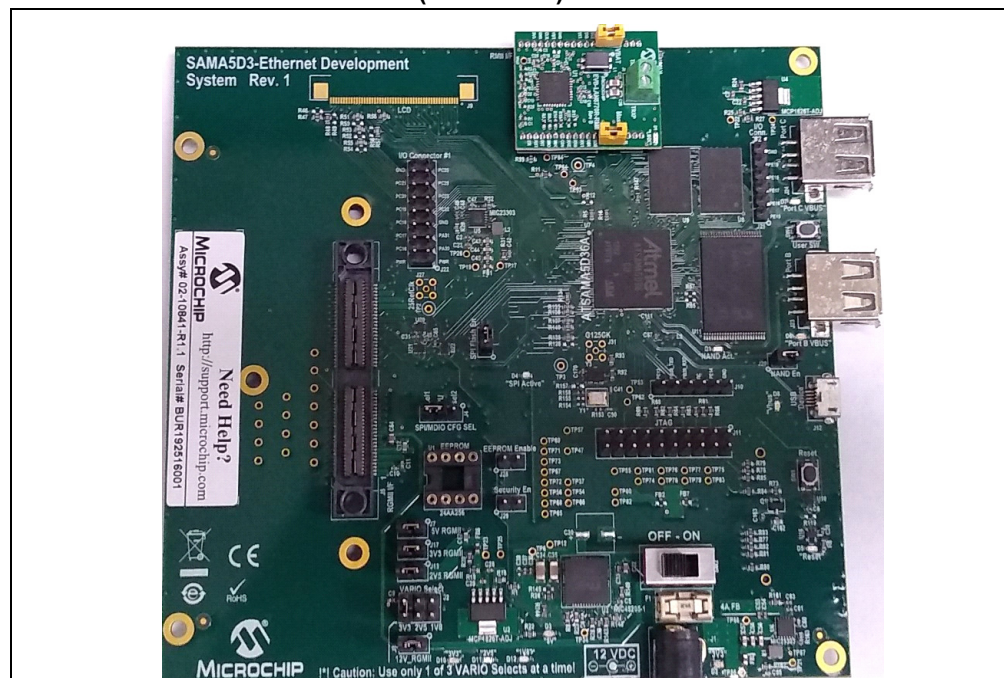
3.1.3.2 MASTER/SLAVE

The master/slave select (J5) can configure the LAN8770 to be either master or slave in communication with a link partner of opposite master/slave configuration (as per 100BASE-T1 specifications). For master, J5 is populated with a jumper. For slave, J5 is left open.

3.1.4 Using the EVB-LAN8770-RMII™ Evaluation Board

The EVB-LAN8770-RMII™ Evaluation Board directly plugs into a mating Microchip host controller or processor board, such as the SAMA5D3 EDS which delivers full power and provides full register access and configuration via MDIO/MDC bus management. Both the EVB-LAN8770-RMII Evaluation Board and the SAMA5D3 EDS board enable 100 Mbps Ethernet traffic through RMII and the PHY port of the LAN8770 device, with the RMII port connecting to the SAMA5D3 processor and the PHY port connecting via 2-wire, single-pair cable to external 100BASE-T1 Ethernet devices. All LAN8770 registers are accessible via MDIO/MDC bus management from the SAMA5D3 EDS Board, enabling full evaluation and firmware development for all LAN8770 features. Refer to the SAMA5D3 EDS Board documentation on its usage. Figure 3-2 shows the EVB-LAN8770-RMII Evaluation Board connected to the SAMA5D3 EDS Board.

FIGURE 3-2: EVB-LAN8770-RMII EVALUATION BOARD WITH SAMA5D3 EDS BOARD (TOP VIEW)



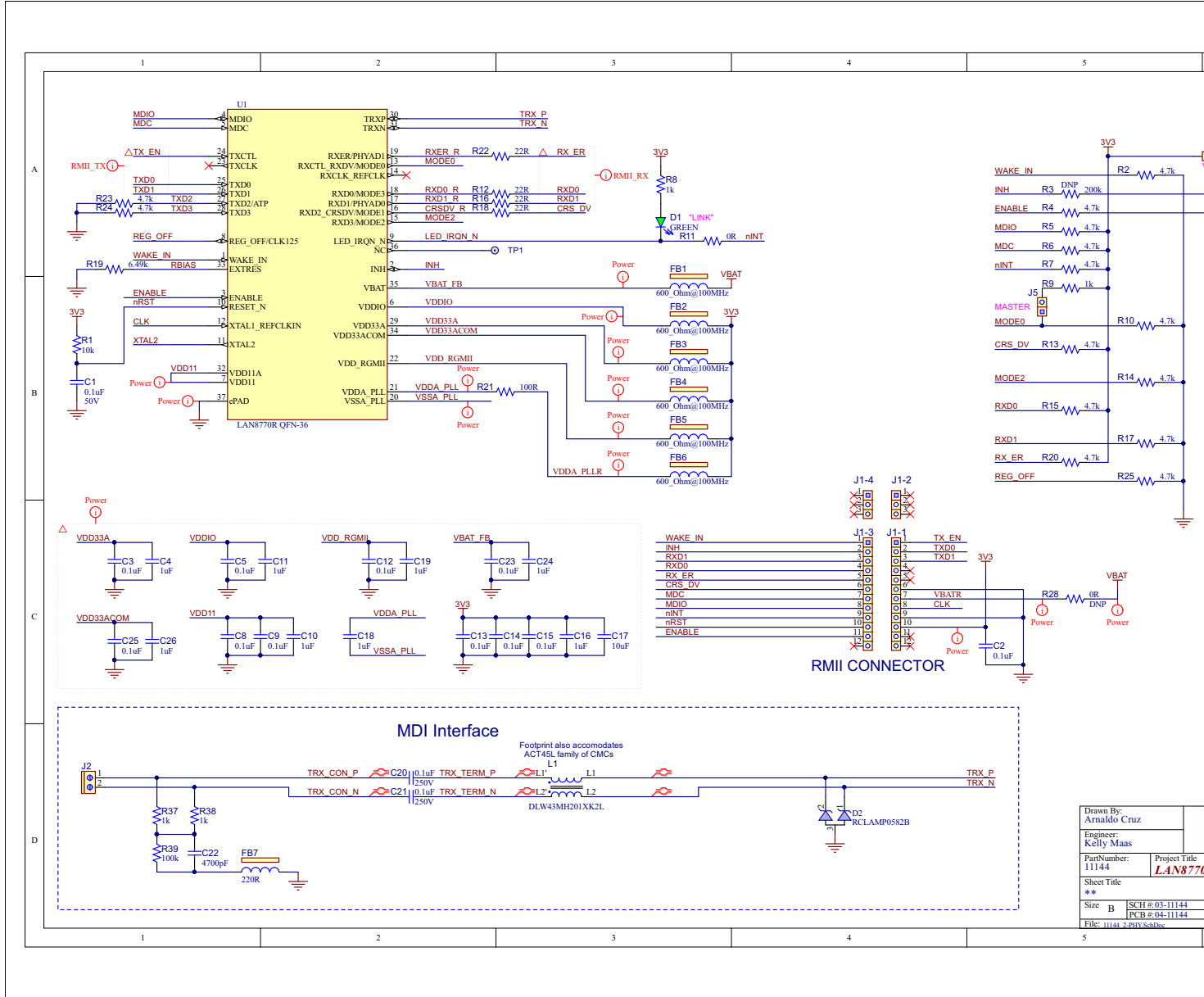


Appendix A. Schematics

A.1 INTRODUCTION

This appendix shows the EVB-LAN8770-RMII™ Evaluation Board schematic.

FIGURE A-1: EVB-LAN8770-RMII™ EVALUATION BOARD SCHEMATIC





Appendix B. Bill of Materials

B.1 INTRODUCTION

This appendix contains the EVB-LAN8770-RMII™ Evaluation Board Bill of Materials (BOM).

TABLE B-1: EVB-LAN8770-RMII™ BILL OF MATERIALS

Item	Quantity	Designator	Description	Populated	Manufacturer
1	12	C1, C2, C3, C5, C8, C9, C12, C13, C14, C15, C23, C25	CAP CER 0.1 µF 50V 10% X7R SMD 0402	Yes	TDK Corporation
2	8	C4, C10, C11, C16, C18, C19, C24, C26	CAP CER 1 µF 35V 10% X5R SMD 0402	Yes	Murata Electronics North America
3	1	C17	CAP CER 470 pF 25V 5% NP0 SMD 0603	Yes	Murata Electronics North America
4	2	C20, C21	CAP CER 0.1 µF 250V 10% X7T SMD 0805	Yes	TDK Corporation
5	1	C22	CAP CER 4700 pF 50V 10% X7R SMD 0402	Yes	Murata Electronics North America
6	1	D1	DIO LED GREEN 2V 30 mA 35 mcd Clear SMD 0603	Yes	Lite-On Inc
7	1	D2	DIO TVS ARRAY RCLAMP0582BQTCT 5V 300W SMD SC-75-3	Yes	Semtech Corporation
8	6	FB1, FB2, FB3, FB4, FB5, FB6	FERRITE 600R@100 MHz DCR 0.34R 500 mA SMD 0402	Yes	Murata Electronics North America
9	1	FB7	FERRITE 220R@100 MHz 2A SMD 0603	Yes	Murata Electronics North America
10	2	J1-1, J1-3	CON HDR-1.27 Male 1X12 GOLD 3.0 MH TH VERT	Yes	Sullins Connector Solutions
11	2	J1-2, J1-4	CON HDR-1.27 Male 1X3 GOLD 3.0 MH TH VERT	Yes	Sullins Connector Solutions
12	1	J2	CON TERMINAL 2.54 mm 1x2 Female 20-30AWG 6A TH R/A	Yes	Phoenix Contact
13	2	J5, J6	CON HDR-2 Male 1X2 Gold TH VERT	Yes	Hirose
14	1	L1	CM CHOKE 200 µH 100 kHz 4.5R 20% SMD DLW43	Yes	Murata Electronics
15	1	R1	RES TFK 10k 1% 1/10W SMD 0402	Yes	Panasonic
16	14	R2, R4, R5, R6, R7, R10, R13, R14, R15, R17, R20, R23, R24, R25	RES TFK 4.7k 1% 1/10W 0402	Yes	KOA Speer
17	4	R8, R9, R37, R38	RES TKF 1K 1% 1/10W SMD 0402	Yes	Panasonic
18	1	R11	RES TKF 0R 1% 1/10W SMD 0402	Yes	Panasonic
19	4	R12, R16, R18, R22	RES TKF 22R 1% 1/20W SMD 0402	Yes	Panasonic Electronic Components
20	1	R19	RES TKF 6.49k 0.1% 1/16W SMD 0402	Yes	Panasonic Electronic Components
21	1	R21	RES TKF 100R 1% 1/10W SMD 0402	Yes	Panasonic Electronic Components
22	1	R39	RES TKF 100k 1% 1/10W SMD 0402	Yes	Panasonic
23	1	U1	MCHP INTERFACE T1 ETHERNET LAN8770R QFN-36	Yes	Microchip Technology Inc.
24	1	R3	RES TKF 200k 1% 1/10W SMD 0402	DNP	Panasonic
25	1	R28	RES TKF 0R SMD 0402	DNP	Panasonic

Appendix C. Silk Screens

C.1 INTRODUCTION

This appendix shows the top and bottom silk screen images of the EVB-LAN8770-RMII™ Evaluation Board.

FIGURE C-1: .EVB-LAN8770-RMII™ TOP SILK SCREEN IMAGE

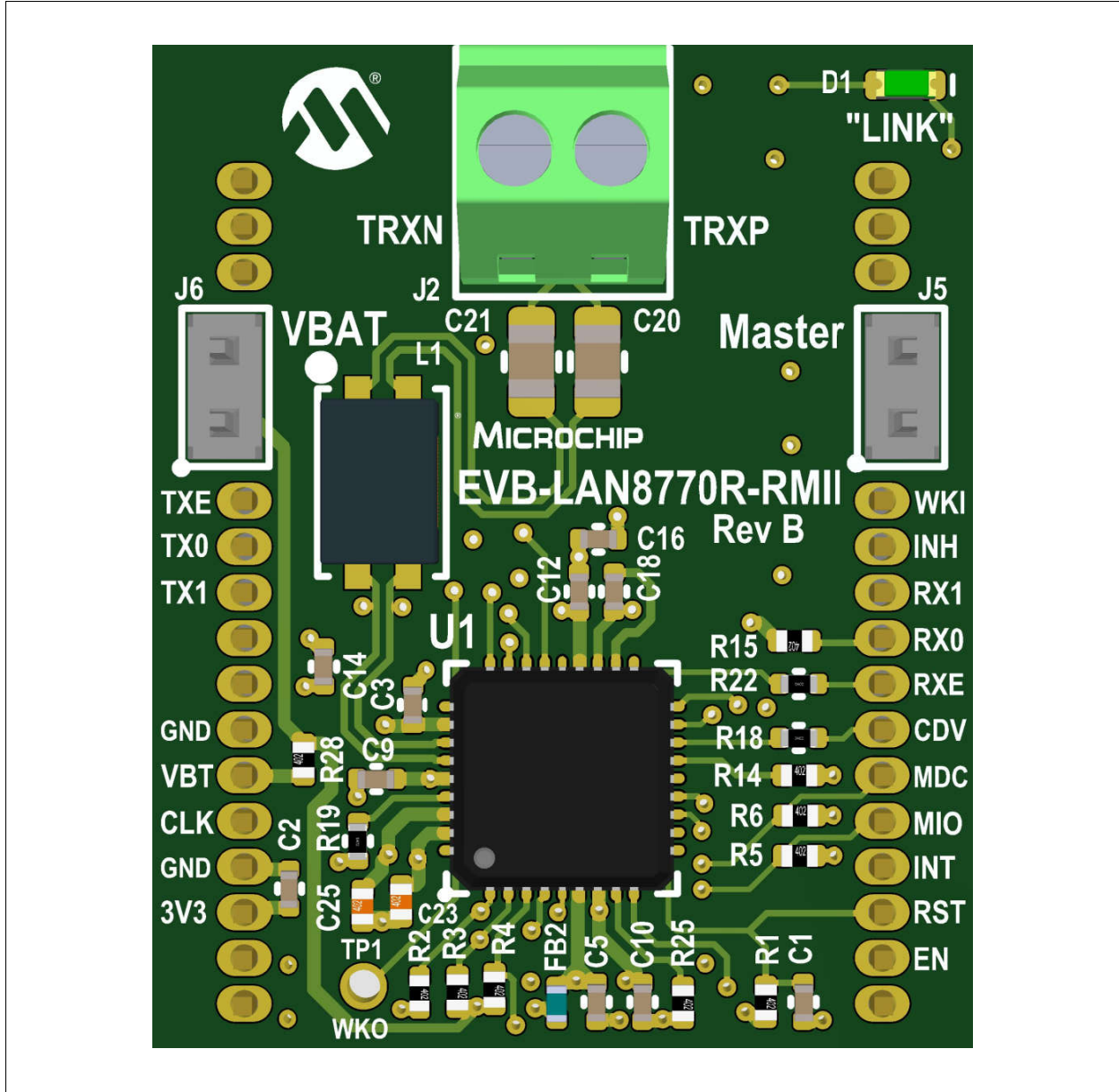
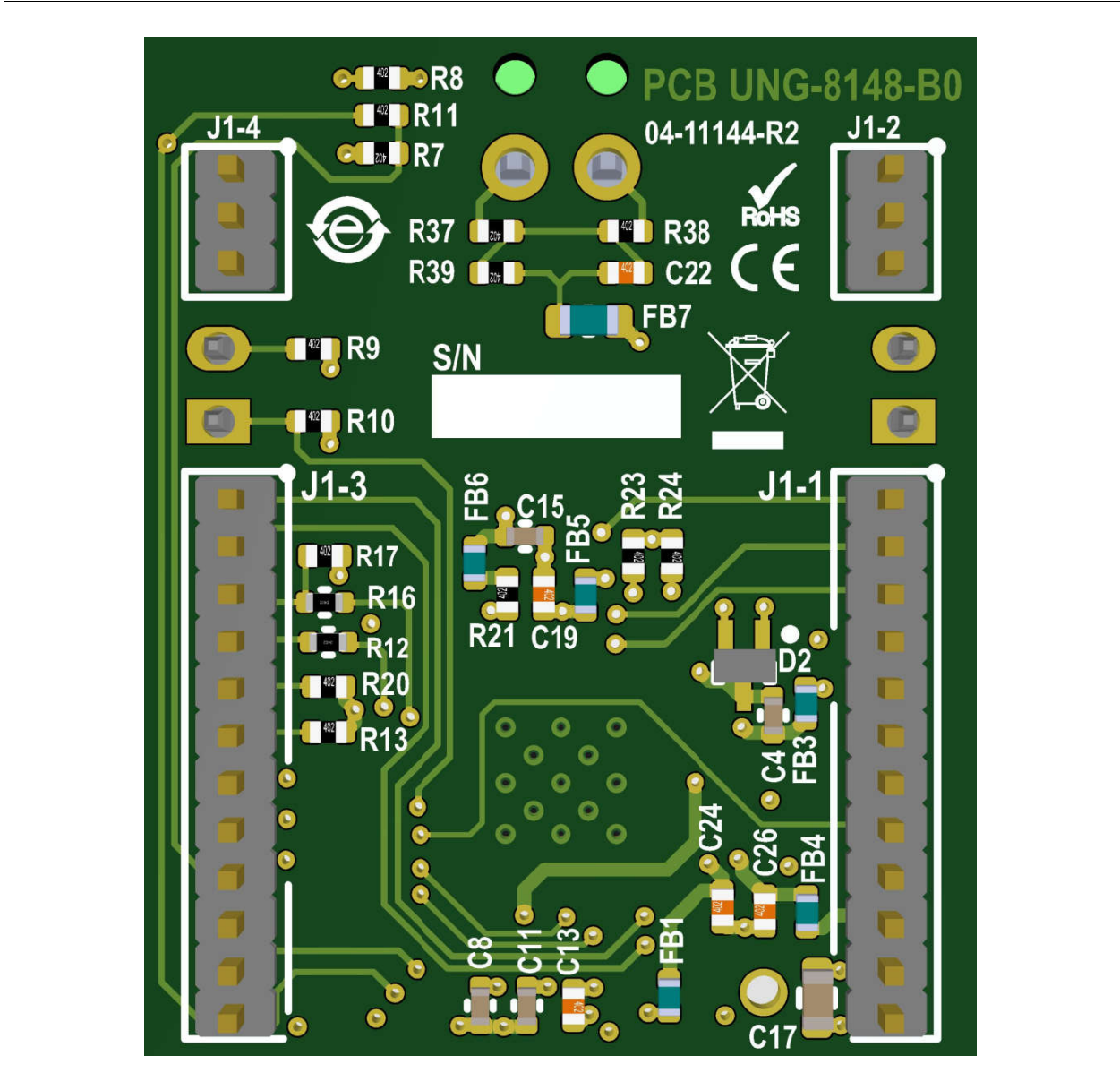


FIGURE C-2: EVB-LAN8770-RMII™ BOTTOM SILK SCREEN IMAGE





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