



**MICROCHIP**

---

**EVB-LAN7430  
Evaluation Board  
User's Guide**

---

---

**Note the following details of the code protection feature on Microchip devices:**

- Microchip products meet the specification contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Most likely, the person doing so is engaged in theft of intellectual property.
- Microchip is willing to work with the customer who is concerned about the integrity of their code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as "unbreakable."

Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

---

Information contained in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications. MICROCHIP MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, STATUTORY OR OTHERWISE, RELATED TO THE INFORMATION, INCLUDING BUT NOT LIMITED TO ITS CONDITION, QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR PURPOSE. Microchip disclaims all liability arising from this information and its use. Use of Microchip devices in life support and/or safety applications is entirely at the buyer's risk, and the buyer agrees to defend, indemnify and hold harmless Microchip from any and all damages, claims, suits, or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any Microchip intellectual property rights unless otherwise stated.

**Trademarks**

The Microchip name and logo, the Microchip logo, AnyRate, AVR, AVR logo, AVR Freaks, BitCloud, chipKIT, chipKIT logo, CryptoMemory, CryptoRF, dsPIC, FlashFlex, flexPWR, Heldo, JukeBlox, KeeLoq, Klear, LANCheck, LINK MD, maXStylus, maXTouch, MediaLB, megaAVR, MOST, MOST logo, MPLAB, OptoLyzer, PIC, picoPower, PICSTART, PIC32 logo, Prochip Designer, QTouch, SAM-BA, SpyNIC, SST, SST Logo, SuperFlash, tinyAVR, UNI/O, and XMEGA are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

ClockWorks, The Embedded Control Solutions Company, EtherSynch, Hyper Speed Control, HyperLight Load, IntelliMOS, mTouch, Precision Edge, and Quiet-Wire are registered trademarks of Microchip Technology Incorporated in the U.S.A.

Adjacent Key Suppression, AKS, Analog-for-the-Digital Age, Any Capacitor, AnyIn, AnyOut, BodyCom, CodeGuard, CryptoAuthentication, CryptoAutomotive, CryptoCompanion, CryptoController, dsPICDEM, dsPICDEM.net, Dynamic Average Matching, DAM, ECAN, EtherGREEN, In-Circuit Serial Programming, ICSP, INICnet, Inter-Chip Connectivity, JitterBlocker, KlearNet, KlearNet logo, memBrain, Mindi, MiWi, motorBench, MPASM, MPF, MPLAB Certified logo, MPLIB, MPLINK, MultiTRAK, NetDetach, Omniscient Code Generation, PICDEM, PICDEM.net, PICkit, PICtail, PowerSmart, PureSilicon, QMatrix, REAL ICE, Ripple Blocker, SAM-ICE, Serial Quad I/O, SMART-I.S., SQT, SuperSwitcher, SuperSwitcher II, Total Endurance, TSHARC, USBCheck, VariSense, ViewSpan, WiperLock, Wireless DNA, and ZENA are trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

SQTP is a service mark of Microchip Technology Incorporated in the U.S.A.

Silicon Storage Technology is a registered trademark of Microchip Technology Inc. in other countries.

GestIC is a registered trademark of Microchip Technology Germany II GmbH & Co. KG, a subsidiary of Microchip Technology Inc., in other countries.

All other trademarks mentioned herein are property of their respective companies.

© 2019, Microchip Technology Incorporated, All Rights Reserved.

ISBN: 978-1-5224-4070-3

**QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
= ISO/TS 16949 =**

*Microchip received ISO/TS-16949:2009 certification for its worldwide headquarters, design and wafer fabrication facilities in Chandler and Tempe, Arizona; Gresham, Oregon and design centers in California and India. The Company's quality system processes and procedures are for its PIC® MCUs and dsPIC® DSCs, KEELoq® code hopping devices, Serial EEPROMs, microperipherals, nonvolatile memory and analog products. In addition, Microchip's quality system for the design and manufacture of development systems is ISO 9001:2000 certified.*

## Table of Contents

<b>Preface</b> .....	<b>5</b>
Introduction.....	5
Document Layout .....	5
Conventions Used in this Guide .....	6
The Microchip Web Site .....	7
Development Systems Customer Change Notification Service .....	7
Customer Support .....	8
Document Revision History .....	8
 <b>Chapter 1. Overview</b>	
1.1 Introduction .....	9
1.2 References .....	10
1.3 Terms and Abbreviations .....	10
 <b>Chapter 2. Board Details and Configuration</b>	
2.1 Board Details .....	11
2.1.1 Power .....	11
2.1.2 Resets .....	11
2.1.3 Clock .....	11
2.1.4 Configuration .....	11
 <b>Chapter 3. Using the EVB-LAN7430</b>	
 <b>Appendix A. EVB-LAN7430 Evaluation Board</b>	
A.1 Introduction .....	15
 <b>Appendix B. Schematics</b>	
B.1 Introduction .....	17
 <b>Appendix C. Bill of Materials</b>	
C.1 Introduction .....	19
 <b>Worldwide Sales and Service</b> .....	<b>22</b>

NOTES:

---

---

## Preface

---

---

### NOTICE TO CUSTOMERS

All documentation becomes dated, and this manual is no exception. Microchip tools and documentation are constantly evolving to meet customer needs, so some actual dialogs and/or tool descriptions may differ from those in this document. Please refer to our web site ([www.microchip.com](http://www.microchip.com)) to obtain the latest documentation available.

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-LAN7430 Evaluation Board. Items discussed in this chapter include:

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

## DOCUMENT LAYOUT

This document describes how to use the EVB-LAN7430 Evaluation Board as a high-performance and low-cost USB/Ethernet connectivity solution.

The manual layout is as follows:

- **Chapter 1. “Overview”** – Shows a brief description of the EVB-LAN7430 Evaluation Board.
- **Chapter 2. “Board Details and Configuration”** – Includes information about the EVB-LAN7430 Evaluation Board.
- **Chapter 3. “Using the EVB-LAN7430”** – Includes information on how to use the EVB-LAN7430 Evaluation Board.
- **Appendix A. “EVB-LAN7430 Evaluation Board”** – This appendix shows the EVB-LAN7430 Evaluation Board schematic.
- **Appendix B. “Schematics”** – This appendix shows the EVB-LAN7430 Evaluation Board schematic.
- **Appendix C. “Bill of Materials”** – This appendix includes the EVB-LAN7430 Evaluation Board Bill of Materials (BOM).

## CONVENTIONS USED IN THIS GUIDE

This manual uses the following documentation conventions:

### DOCUMENTATION CONVENTIONS

Description	Represents	Examples
<b>Arial font:</b>		
Italic characters	Referenced books	<i>MPLAB<sup>®</sup> 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&gt;Save</i></u>
Bold characters	A dialog button	Click <b>OK</b>
	A tab	Click the <b>Power</b> 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>
<b>Courier New font:</b>		
Plain Courier New	Sample source code	#define START
	Filenames	autoexec.bat
	File paths	c:\mcc18\h
	Keywords	_asm, _endasm, static
	Command-line options	-Opa+, -Opa-
	Bit values	0, 1
	Constants	0xFF, 'A'
Italic Courier New	A variable argument	<i>file.o</i> , where <i>file</i> can be any valid filename
Square brackets [ ]	Optional arguments	mcc18 [options] <i>file</i> [options]
Curly brackets and pipe character: {   }	Choice of mutually exclusive arguments; an OR selection	errorlevel {0 1}
Ellipses...	Replaces repeated text	var_name [, var_name...]
	Represents code supplied by user	void main (void) { ... }

## THE MICROCHIP WEB SITE

Microchip provides online support via our web site at [www.microchip.com](http://www.microchip.com). This web site is used as a means to make files and information easily available to customers. Accessible by using your favorite Internet browser, the web site contains the following information:

- **Product Support** – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- **General Technical Support** – Frequently Asked Questions (FAQs), technical support requests, online discussion groups, Microchip consultant program member listing
- **Business of Microchip** – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

## DEVELOPMENT SYSTEMS CUSTOMER CHANGE NOTIFICATION SERVICE

Microchip's customer notification service helps keep customers current on Microchip products. Subscribers will receive e-mail notification whenever there are changes, updates, revisions or errata related to a specified product family or development tool of interest.

To register, access the Microchip web site at [www.microchip.com](http://www.microchip.com), click on Customer Change Notification and follow the registration instructions.

The Development Systems product group categories are:

- **Compilers** – The latest information on Microchip C compilers, assemblers, linkers and other language tools. These include all MPLAB C compilers; all MPLAB assemblers (including MPASM assembler); all MPLAB linkers (including MPLINK object linker); and all MPLAB librarians (including MPLIB object librarian).
- **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 nonproduction development programmers such as PICSTART Plus and PIC-kit 2 and 3.

## CUSTOMER SUPPORT

Users of Microchip products can receive assistance through several channels:

- Distributor or Representative
- 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
DS50002841A (01-18-19)	Initial release	



## Chapter 1. Overview

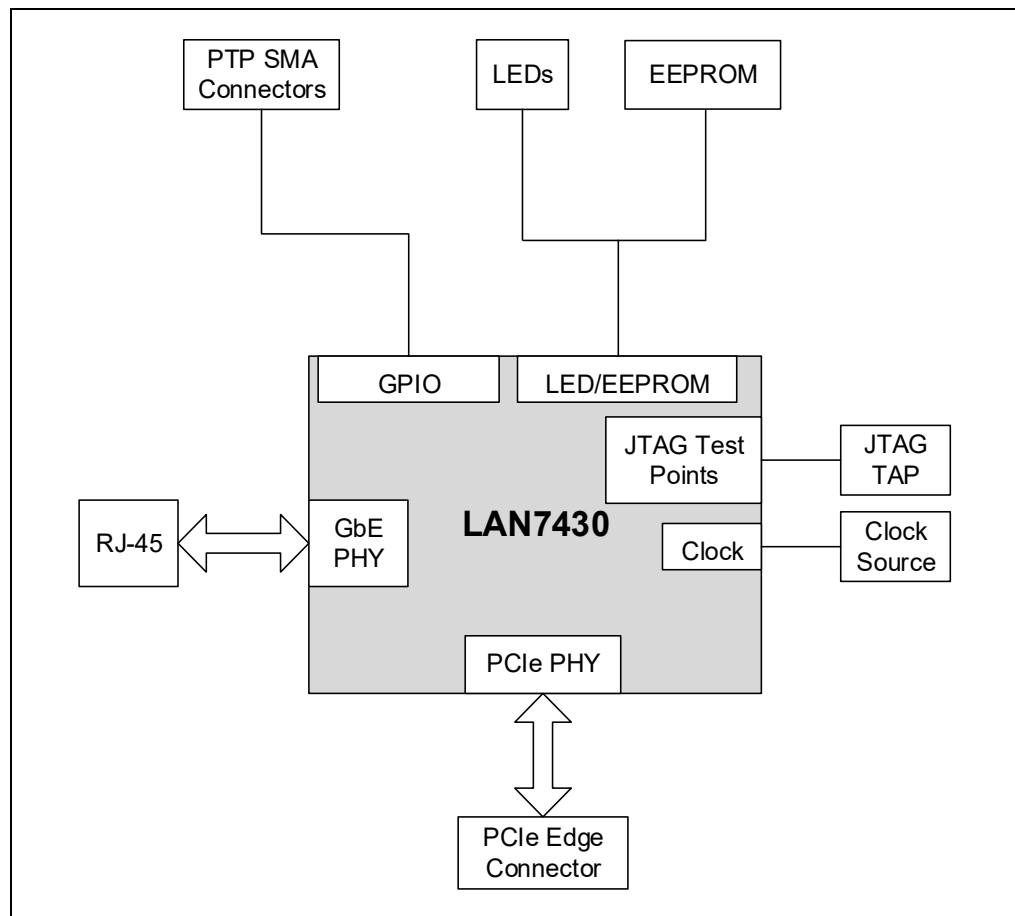
### 1.1 INTRODUCTION

The EVB-LAN7430 Evaluation Board features LAN7430, PCIe to Gigabit Ethernet bridge device. LAN7430 has an integrated 10/100/1000 Mbps Ethernet PHY, PCIe PHY, Gigabit Ethernet MAC, OTP memory, EEPROM controller, clock/reset/power management functions, PCIe endpoint controller, DMA controller and JTAG TAP. The device supports IEEE 802.3az Energy Efficient Ethernet (EEE), IEEE 1588-2008, and advanced power management features, which makes this device highly suitable across many application areas. This evaluation board requires a single lane PCIe slot.

The scope of this document is to describe the EVB-LAN7430 evaluation board setup and the corresponding jumper configuration.

A simplified block diagram of the board is shown in [Figure 1-1](#).

**FIGURE 1-1: EVB-LAN7430 BLOCK DIAGRAM**



## 1.2 REFERENCES

Concepts and material available in the following documents will be helpful when reading this document. Visit [www.microchip.com](http://www.microchip.com) for the latest documentation.

- *LAN7430 Data Sheet*
- *EVB-LAN7430 Schematic*
- *Application Note: Implementing IEEE 1588-2008 with LAN7430*

## 1.3 TERMS AND ABBREVIATIONS

- EEE - Energy Efficient Ethernet
- EVB - Evaluation Board
- GND - Ground
- PHY - Physical Transceiver
- PTP - Point to Point
- SMA Connector - Sub-Miniature version A Connector

---

---

## Chapter 2. Board Details and Configuration

---

---

### 2.1 BOARD DETAILS

This section includes the following EVB-LAN7430 board details:

- [Power](#)
- [Resets](#)
- [Clock](#)
- [Configuration](#)

#### 2.1.1 Power

The board receives 3.3V supply through the PCIe interface. An internal 2.5V voltage regulator supplies power to the 2.5V tolerant supply pins such as the AVDDH\_1/ AVDDH\_2 and VPH pins, and the VDD12\_SW\_OUT pin supplies 1.2V to three VDD12CORE pins and VP and VPTX pins. An on-board power scheme can supply 3.3V to LAN7430 and other devices through the auxiliary pin of the PCIe interface.

#### 2.1.2 Resets

Jumper J2 is required to be populated if the reset function is required for the board.

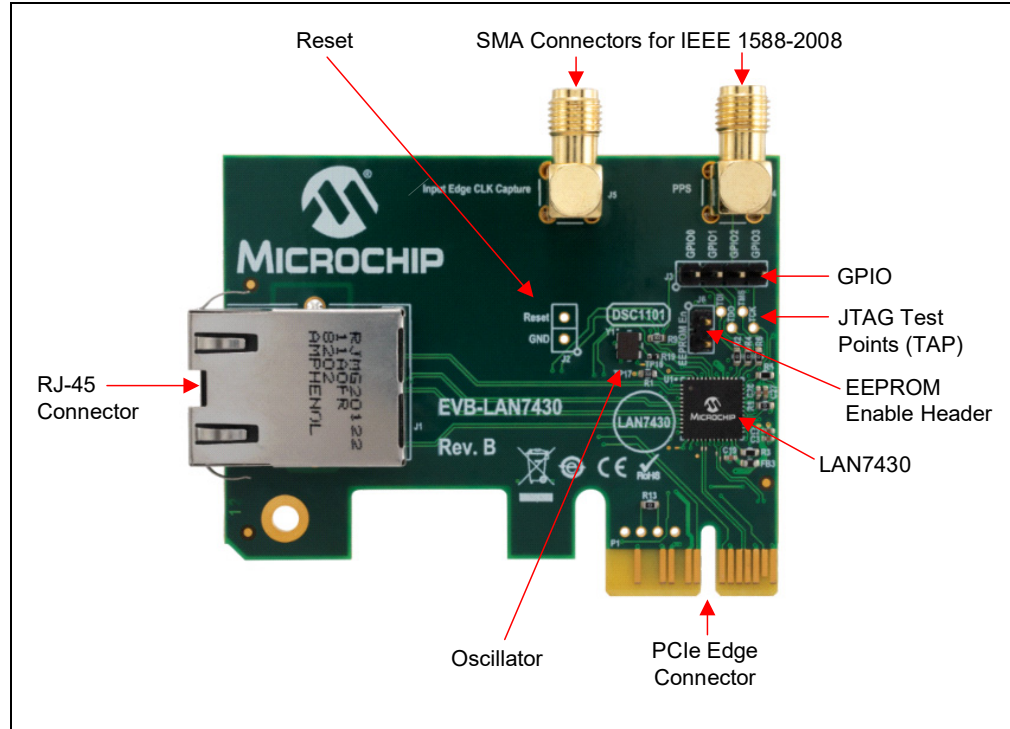
#### 2.1.3 Clock

The evaluation board utilizes an external 25 MHz crystal oscillator.

#### 2.1.4 Configuration

[Figure 2-1](#) describes the board features and configuration settings.

**FIGURE 2-1: EVB-LAN7430 TOP VIEW WITH CALLOUTS**



## 2.1.4.1 JUMPER SETTINGS

Table 2-1 describes the jumper settings. The default configuration is shown in bold.

**TABLE 2-1: JUMPERS**

Jumper	Label	Description	Open	Close
J2	Reset	Provides the hardware reset to the board	<b>(Default)</b> Board performs normal operation.	Resets the board
J6	EEPROM En	Enables optional EEPROM	EEPROM is disabled. Internal OTP is used to configure LAN7430.	<b>(Default)</b> EEPROM is enabled.

## 2.1.4.2 HEADERS AND CONNECTORS

Table 2-2 describes the functions of the headers on the board.

**TABLE 2-2: HEADERS AND CONNECTORS**

Header	Label	Description
J1	8P8C (RJ-45) connector	Connects an Ethernet cable
J3	GPIO1, GPIO2, GPIO 3, GPIO4	General purpose input/output (I/O)
J4	PPS	IEEE 1588 Pulse Per Second (PPS) input
J5	Input Edge clock Capture	IEEE 1588 Input Edge Clock Capture
JTAG TAP	TDI/TDO/TMS/TCK	Signals to enable fly-wiring of JTAG TAP from LAN7430 to the PCIe connector. When using the TAP, remove R13.

---

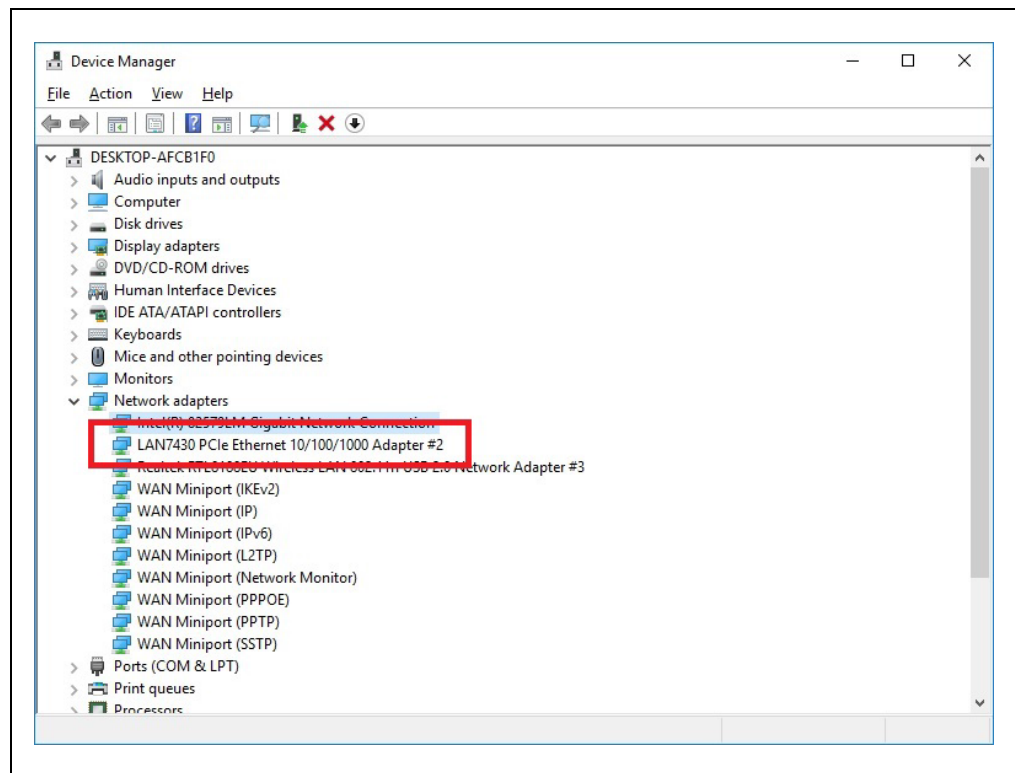
## Chapter 3. Using the EVB-LAN7430

---

The EVB-LAN7430 board is connected to a PCIe slot of a PC. The LAN7430 device supports Windows 10 and Linux operating system. The drivers are provided on the LAN7430 device's product page for both operating systems. A 'readme' file is also provided with the drivers, which describes the driver installation process in detail.

Once the drivers are installed correctly for Windows 10, for example, the board can be detected in Device Manager as shown in [Figure 3-1](#).

**FIGURE 3-1: LAN7430 DETECTED IN DEVICE MANAGER**



Once the PC detects the LAN7430 board correctly, the PC can then be connected to the Internet using an Ethernet cable to test the board.

**NOTES:**

---

---

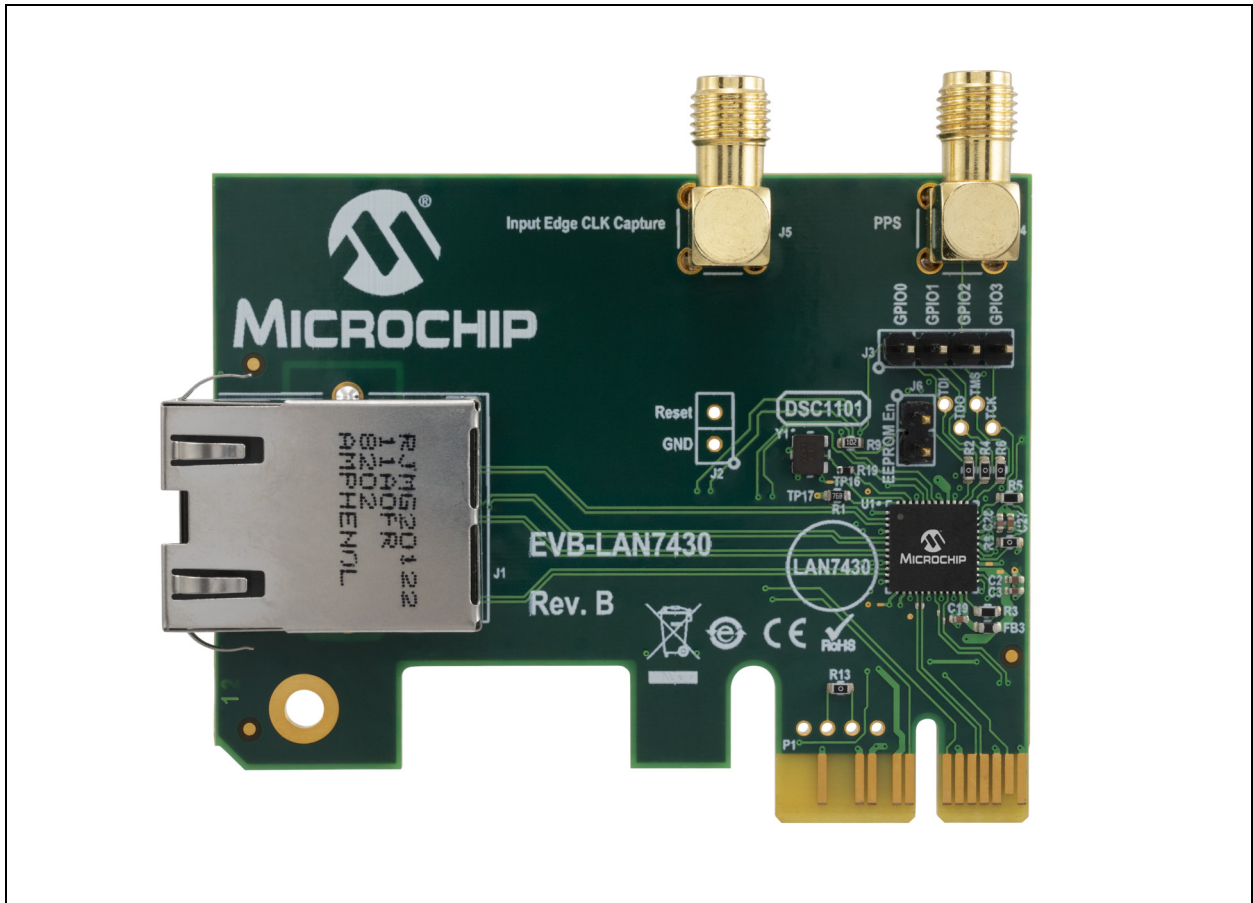
**Appendix A. EVB-LAN7430 Evaluation Board**

---

---

**A.1 INTRODUCTION**

This appendix shows the EVB-LAN7430 Evaluation Board.

**FIGURE A-1: EVB-LAN7430 EVALUATION BOARD**

**NOTES:**





---

---

## **Appendix B. Schematics**

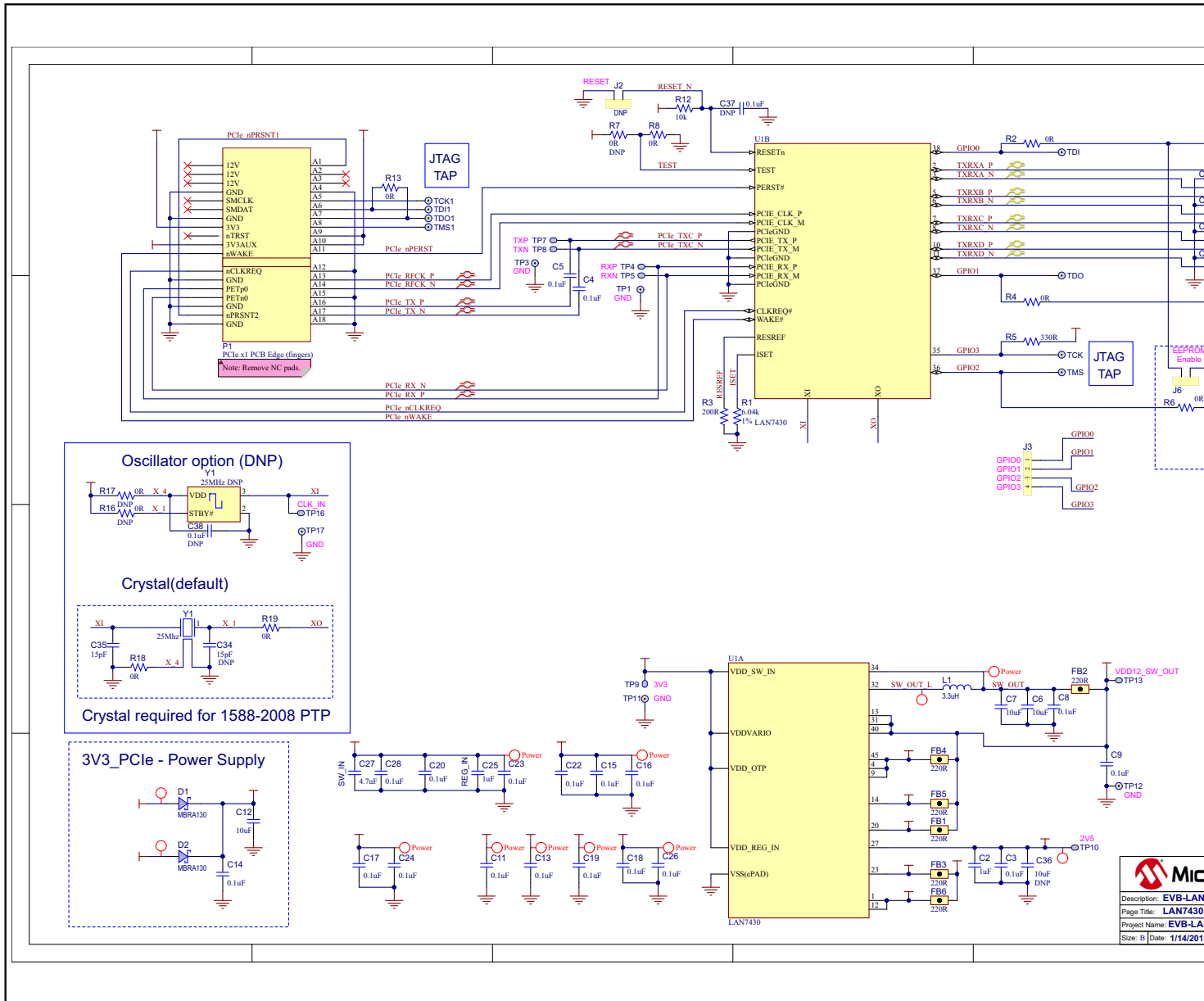
---

---

### **B.1 INTRODUCTION**

This appendix shows the EVB-LAN7430 Evaluation Board schematics.

FIGURE B-1: EVB-LAN7430 EVALUATION BOARD SCHEMATICS





## **Appendix C. Bill of Materials**

---

---

### **C.1 INTRODUCTION**

This appendix includes the EVB-LAN7430 Bill of Materials (BOM).

**TABLE C-1: EVB-LAN7430 BILL OF MATERIALS**

Item	Qty	Reference	Description	Populated	Manufacturer	
1	2	C2, C25	CAP CER 1uF 35V 10% X5R SMD 0402	YES	Murata Electronics North America	GR
2	15	C3, C8, C9, C11, C13, C15, C16, C17, C18, C19, C20, C22, C23, C24, C28	CAP CER 0.1uF 50V 10% X7R SMD 0402	YES	TDK Corporation	C7
3	8	C4, C5, C10, C14, C30, C31, C32, C33	CAP CER 0.1uF 50V 10% X7R SMD 0402	YES	TDK Corporation	C1
4	3	C6, C7, C12	CAP CER 10UF 25V 20% X5R SMD 0603	YES	Murata Electronics North America	GR
5	1	C26	CAP CER 0.1uF 16V 10% X7R SMD 0402	YES	Murata	GR
6	1	C27	CAP CER 4.7uF 6.3V 20% X5R SMD 0402	YES	Murata	GR
7	1	C35	CAP CER 15pF 50V 5% NP0 SMD 0402	YES	Murata	GR
8	2	D1, D2	DIO SCKY MBRA130LT3G 410mV 1A 30V SMD DO-214AC SMA	YES	ON Semiconductor	MB
9	6	FB1, FB2, FB3, FB4, FB5, FB6	FERRITE 500mA 220R SMD 0603	YES	Murata	BL
10	1	FB7	FERRITE 220R @ 100MHz 2A SMD 0603	YES	Murata Electronics North America	BL
11	1	J1	CON MODULAR JACK RJ45 10/100/1000 MAGNETICS 2xLEDs SHIELD TH R/A	YES	Amphenol Commercial Products	Ra
12	1	J3	CON HDR-2.54 Male 1x4 Gold 5.84MH TH VERT	YES	Würth Electronics Inc	61
13	1	J6	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	YES	FCI	77
14	1	L1	INDUCTOR 3.3UH 2.25A 20% SMD L3W2.5H1.5	YES	TDK Corporation	VL
15	1	MH1	Bracket, BKT_PCI_LP_Enet_1, GLOBE	YES	Keystone	
16	1	R1	RES TKF 6.04k 1% 1/10W SMD 0603	YES	Yageo	9T
17	5	R2, R4, R6, R8, R13	RES TKF 0R 1/10W SMD 0603	YES	Panasonic	EF
18	1	R3	RES TKF 200R 1% 1/10W SMD 0603	YES	Panasonic	EF
19	3	R5, R10, R11	RES TKF 330R 1% 1/10W SMD 0603	YES	Panasonic	EF
20	1	R9	RES TKF 1k 5% 1/10W SMD 0603	YES	Panasonic	EF
21	1	R12	RES TKF 10k 1% 1/10W SMD 0603	YES	Panasonic	EF
22	2	R18, R19	RES TKF 0R SMD 0402	YES	Panasonic	EF
23	1	U1	MCHP INTERFACE PCIe-GiGe ETHERNET LAN7430 SQFN-48	YES	Microchip Technology	LA
24	1	U2	MCHP MEMORY SERIAL EEPROM 4k Microwire 93AA66A-I/SN SOIC-8	YES	Microchip	93
25	1	C34	CAP CER 15pF 50V 5% NP0 SMD 0402	NO	Murata	GR
26	1	C36	CAP CER 10UF 25V 20% X5R SMD 0603	NO	Murata Electronics North America	GR
27	1	C37	CAP CER 0.1uF 50V 10% X7R SMD 0402	NO	TDK Corporation	C7

**TABLE C-1: EVB-LAN7430 BILL OF MATERIALS (CONTINUED)**

Item	Qty	Reference	Description	Populated	Manufacturer	
28	1	C38	CAP CER 0.1uF 50V 10% X7R SMD 0402	NO	TDK Corporation	C
29	1	J2	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	NO	FCI	77
30	2	J4, J5	CON RF Coaxial SMA Female TH R/A	NO	TE Connectivity AMP Connectors	5-
31	1	R7	RES TKF 0R 1/10W SMD 0603	NO	Panasonic	EF
32	2	R14, R15	RES TKF 0R 1/16W SMD 0402	NO	Yageo	RC
33	2	R16, R17	RES TKF 0R SMD 0402	NO	Panasonic	EF
34	1	Y1	MCHP CLOCK OSCILLATOR SINGLE 25MHZ DSC1001C12-025.0000T CDFN-4	NO	Microchip Technology	DS
35	1	Y1	CRYSTAL 25MHz 10pF SMD ABM8G	YES	Abracon LLC	AE



# MICROCHIP

## Worldwide Sales and Service

### AMERICAS

**Corporate Office**  
2355 West Chandler Blvd.  
Chandler, AZ 85224-6199  
Tel: 480-792-7200  
Fax: 480-792-7277  
Technical Support:  
<http://www.microchip.com/support>  
Web Address:  
[www.microchip.com](http://www.microchip.com)

#### Atlanta

Duluth, GA  
Tel: 678-957-9614  
Fax: 678-957-1455

#### Austin, TX

Tel: 512-257-3370

#### Boston

Westborough, MA  
Tel: 774-760-0087  
Fax: 774-760-0088

#### Chicago

Itasca, IL  
Tel: 630-285-0071  
Fax: 630-285-0075

#### Dallas

Addison, TX  
Tel: 972-818-7423  
Fax: 972-818-2924

#### Detroit

Novi, MI  
Tel: 248-848-4000

#### Houston, TX

Tel: 281-894-5983

#### Indianapolis

Noblesville, IN  
Tel: 317-773-8323  
Fax: 317-773-5453  
Tel: 317-536-2380

#### Los Angeles

Mission Viejo, CA  
Tel: 949-462-9523  
Fax: 949-462-9608  
Tel: 951-273-7800

#### Raleigh, NC

Tel: 919-844-7510

#### New York, NY

Tel: 631-435-6000

#### San Jose, CA

Tel: 408-735-9110  
Tel: 408-436-4270

#### Canada - Toronto

Tel: 905-695-1980  
Fax: 905-695-2078

### ASIA/PACIFIC

**Australia - Sydney**  
Tel: 61-2-9868-6733

**China - Beijing**  
Tel: 86-10-8569-7000

**China - Chengdu**  
Tel: 86-28-8665-5511

**China - Chongqing**  
Tel: 86-23-8980-9588

**China - Dongguan**  
Tel: 86-769-8702-9880

**China - Guangzhou**  
Tel: 86-20-8755-8029

**China - Hangzhou**  
Tel: 86-571-8792-8115

**China - Hong Kong SAR**  
Tel: 852-2943-5100

**China - Nanjing**  
Tel: 86-25-8473-2460

**China - Qingdao**  
Tel: 86-532-8502-7355

**China - Shanghai**  
Tel: 86-21-3326-8000

**China - Shenyang**  
Tel: 86-24-2334-2829

**China - Shenzhen**  
Tel: 86-755-8864-2200

**China - Suzhou**  
Tel: 86-186-6233-1526

**China - Wuhan**  
Tel: 86-27-5980-5300

**China - Xian**  
Tel: 86-29-8833-7252

**China - Xiamen**  
Tel: 86-592-2388138

**China - Zhuhai**  
Tel: 86-756-3210040

### ASIA/PACIFIC

**India - Bangalore**  
Tel: 91-80-3090-4444

**India - New Delhi**  
Tel: 91-11-4160-8631

**India - Pune**  
Tel: 91-20-4121-0141

**Japan - Osaka**  
Tel: 81-6-6152-7160

**Japan - Tokyo**  
Tel: 81-3-6880-3770

**Korea - Daegu**  
Tel: 82-53-744-4301

**Korea - Seoul**  
Tel: 82-2-554-7200

**Malaysia - Kuala Lumpur**  
Tel: 60-3-7651-7906

**Malaysia - Penang**  
Tel: 60-4-227-8870

**Philippines - Manila**  
Tel: 63-2-634-9065

**Singapore**  
Tel: 65-6334-8870

**Taiwan - Hsin Chu**  
Tel: 886-3-577-8366

**Taiwan - Kaohsiung**  
Tel: 886-7-213-7830

**Taiwan - Taipei**  
Tel: 886-2-2508-8600

**Thailand - Bangkok**  
Tel: 66-2-694-1351

**Vietnam - Ho Chi Minh**  
Tel: 84-28-5448-2100

### EUROPE

**Austria - Wels**  
Tel: 43-7242-2244-39  
Fax: 43-7242-2244-393

**Denmark - Copenhagen**  
Tel: 45-4450-2828  
Fax: 45-4485-2829

**Finland - Espoo**  
Tel: 358-9-4520-820

**France - Paris**  
Tel: 33-1-69-53-63-20  
Fax: 33-1-69-30-90-79

**Germany - Garching**  
Tel: 49-8931-9700

**Germany - Haan**  
Tel: 49-2129-3766400

**Germany - Heilbronn**  
Tel: 49-7131-67-3636

**Germany - Karlsruhe**  
Tel: 49-721-625370

**Germany - Munich**  
Tel: 49-89-627-144-0  
Fax: 49-89-627-144-44

**Germany - Rosenheim**  
Tel: 49-8031-354-560

**Israel - Ra'anana**  
Tel: 972-9-744-7705

**Italy - Milan**  
Tel: 39-0331-742611  
Fax: 39-0331-466781

**Italy - Padova**  
Tel: 39-049-7625286

**Netherlands - Drunen**  
Tel: 31-416-690399  
Fax: 31-416-690340

**Norway - Trondheim**  
Tel: 47-7288-4388

**Poland - Warsaw**  
Tel: 48-22-3325737

**Romania - Bucharest**  
Tel: 40-21-407-87-50

**Spain - Madrid**  
Tel: 34-91-708-08-90  
Fax: 34-91-708-08-91

**Sweden - Gothenberg**  
Tel: 46-31-704-60-40

**Sweden - Stockholm**  
Tel: 46-8-5090-4654

**UK - Wokingham**  
Tel: 44-118-921-5800  
Fax: 44-118-921-5820

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ethernet Development Tools](#) category:*

*Click to view products by [Microchip](#) manufacturer:*

Other Similar products are found below :

[KSZ8863FLL-EVAL](#) [KSZ8873MLL-EVAL](#) [PD-IM-7648M](#) [PD-IM-7648T4](#) [PD70101EVB15F-12](#) [PD70101EVB6F](#) [PD70211EVB50FW-5](#)  
[PD70211EVB72FW-12](#) [EV44F42A](#) [WIZ550S2E-232-EVB](#) [DFR0272](#) [A000024](#) [DFR0125](#) [UKIT-006GP](#) [UKIT-003FE](#) [UKIT-002GB](#) [UKIT-](#)  
[001FE](#) [EVB-KSZ9477](#) [OM-E-ETH](#) [DP83867ERGZ-R-EVM](#) [UP-POE-A20-0001](#) [2971](#) [3785](#) [ASX00006](#) [ASX00021](#) [ASX00026](#) [XTIB-E](#)  
[ESP32-ETHERNET-KIT-VE](#) [EVB-KSZ9897-1](#) [KSZ9031MNX-EVAL](#) [AC164121](#) [AC164132](#) [AC320004-5](#) [AC320004-6](#) [AC320004-7](#)  
[DM320114](#) [DM990004](#) [EV02N47A](#) [EV44C93A](#) [EV57N07A](#) [EVB-KSZ8563](#) [EVB-KSZ9477-1](#) [EVB-KSZ9893](#) [EVB-LAN7430](#) [EVB-](#)  
[LAN7431-EDS](#) [EVB-LAN7800LC-1](#) [EVB-LAN7850](#) [EVB-LAN9252-3PORT](#) [EVB-LAN9252-ADD-ON](#) [EVB-LAN9252-DIGIO](#)