



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in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates.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, Adaptec, AnyRate, AVR, AVR logo, AVR Freaks, BesTime, BitCloud, chipKIT, chipKIT logo, CryptoMemory, CryptoRF, dsPIC, FlashFlex, flexPWR, HELDO, IGLOO, JukeBlox, KeeLoq, Kleer, LANCheck, LinkMD, maXStylus, maXTouch, MediaLB, megaAVR, Microsemi, Microsemi logo, MOST, MOST logo, MPLAB, OptoLyzers, PackeTime, PIC, picoPower, PICSTART, PIC32 logo, PolarFire, Prochip Designer, QTouch, SAM-BA, SenGenuity, SpyNIC, SST, SST Logo, SuperFlash, Symmetricom, SyncServer, Tachyon, TempTrackr, TimeSource, tinyAVR, UNI/O, Vectron, and XMEGA are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

APT, ClockWorks, The Embedded Control Solutions Company, EtherSynch, FlashTec, Hyper Speed Control, HyperLight Load, IntelliMOS, Libero, motorBench, mTouch, Powermite 3, Precision Edge, ProASIC, ProASIC Plus, ProASIC Plus logo, Quiet-Wire, SmartFusion, SyncWorld, Temux, TimeCesium, TimeHub, TimePictra, TimeProvider, Vite, WinPath, and ZL 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, BlueSky, 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, KleerNet, KleerNet logo, memBrain, Mindi, MiWi, 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., SQi, 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.

The Adaptec logo, Frequency on Demand, Silicon Storage Technology, and Symmcom are registered trademarks 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.

© 2019-2020, Microchip Technology Incorporated, All Rights Reserved.

ISBN: 978-1-5224-6457-0

For information regarding Microchip's Quality Management Systems, please visit www.microchip.com/quality.

Table of Contents

| | |
|--|-----------|
| Preface | 5 |
| 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 |
| Chapter 1. Overview | |
| 1.1 Introduction | 9 |
| 1.2 References | 10 |
| 1.3 Terms and Abbreviations | 10 |
| Chapter 2. Board Details and Configuration | |
| 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 |
| Chapter 3. Using the EVB-LAN7430 | |
| Appendix A. EVB-LAN7430 Evaluation Board | |
| A.1 Introduction | 17 |
| Appendix B. Schematics | |
| B.1 Introduction | 19 |
| Appendix C. Bill of Materials | |
| C.1 Introduction | 21 |
| Worldwide Sales and Service | 24 |

EVB-LAN7430 Evaluation Board User's Guide

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) 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 “DSXXXXXA”, where “XXXXX” 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).

EVB-LAN7430 Evaluation Board User's Guide

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>File</u> >Save |
| 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 | #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. 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, 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.

EVB-LAN7430 Evaluation Board User's Guide

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 |
|---------------------------|---|--------------------------------------|
| DS50002841B (07-23-20) | Figure 2-1 | Updated the figure. |
| | Table 2-1 and Table 2-2 | Updated the tables. |
| | Section 2.1.4.3 “Available GPIO and LEDs While Using EEPROM and IEEE 1588 V2” | Added this section. |
| | Section 2.1.4.4 “DNP Parts” | Added this section. |
| | Figure A-1 | Updated the figure. |
| | Figure B-1 | Updated the schematics diagram. |
| | Table C-1 | Updated the Bill of Materials table. |
| | Initial release | |

Chapter 1. Overview

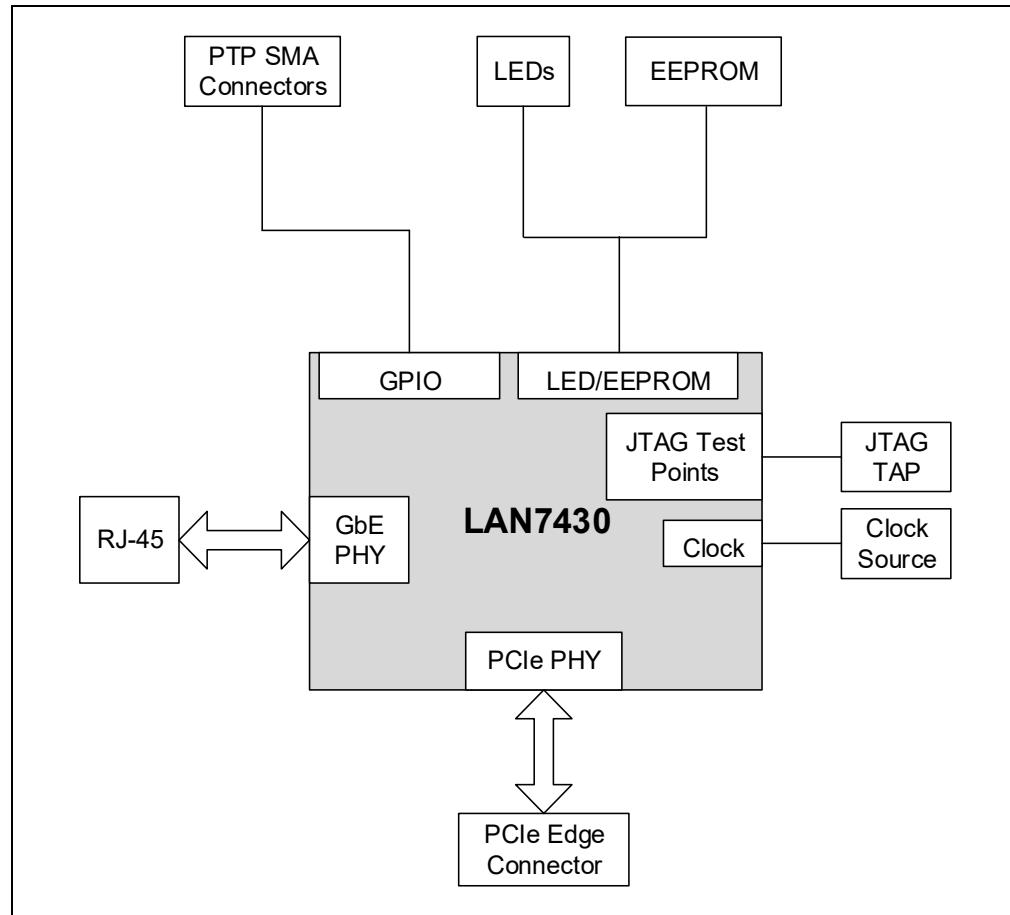
1.1 INTRODUCTION

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



EVB-LAN7430 Evaluation Board User's Guide

1.2 REFERENCES

Concepts and material available in the following documents will be helpful when reading this document. Visit 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

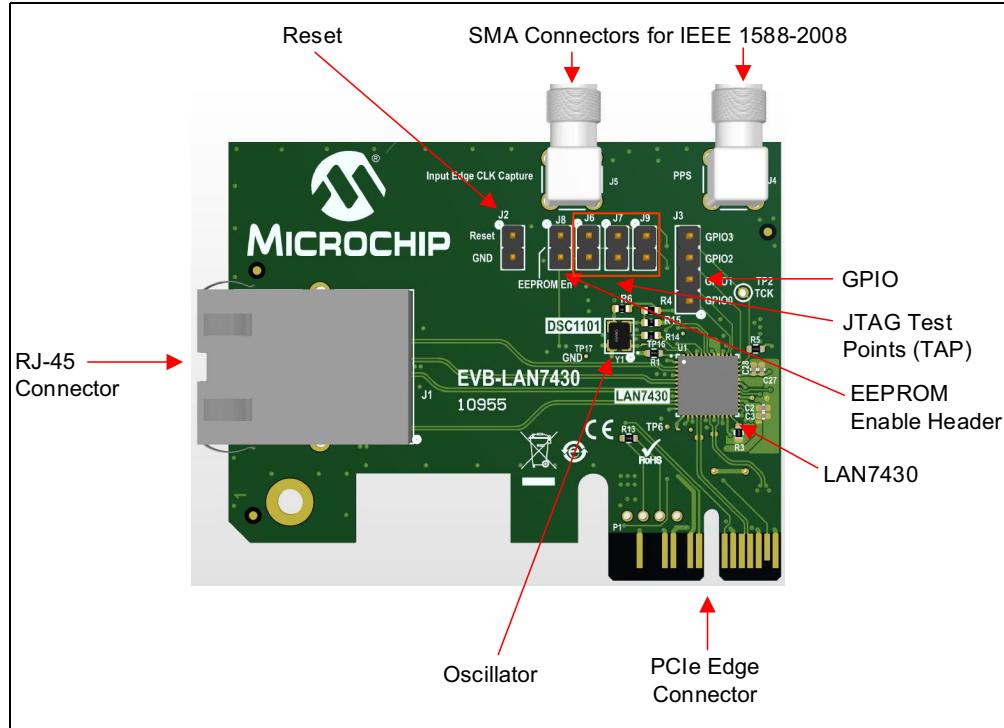
The evaluation board utilizes an external 25 MHz crystal oscillator.

2.1.4 Configuration

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

EVB-LAN7430 Evaluation Board User's Guide

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 | (Default) Board performs normal operation. | Resets the board |
| J8 | EEPROM EN | Enables optional EEPROM | EEPROM is disabled. Internal OTP is used to configure LAN7430. | (Default) EEPROM is enabled. |
| J6, J7, J9 | EEPROM Connections | Enables EEPROM connections | Allows JTAG Testing | (Default) 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 |

Board Details and Configuration

2.1.4.3 AVAILABLE GPIO AND LEDS WHILE USING EEPROM AND IEEE 1588 V2

[Table 2-3](#) shows the available GPIOs and LEDs while using the EEPROM and IEEE 1588 v2.

TABLE 2-3: AVAILABLE GPIO AND LED WHEN EEPROM AND IEEE 1588 ARE USED

| Use Cases | | Available GPIO/LED | | | |
|-----------|------------------|--------------------|------------|------------|------------|
| EEPROM | PTP/IEEE 1588 V2 | GPIO0/LED0 | GPIO1/LED1 | GPIO2/LED2 | GPIO3/LED3 |
| Yes | No | Yes | Yes | No | Yes |
| Yes | Yes | No | Yes | Yes | Yes |
| No | Yes | Yes | Yes | Yes | Yes |

Note 1: Since a GPIO will toggle either Chip Select (CS) or the clock signal on the EEPROM, one of the GPIOs will not be available while using the EEPROM.

2.1.4.4 DNP PARTS

[Table 2-4](#) describes the components that are not populated on the board.

TABLE 2-4: DNP PARTS

| Components | Description |
|--------------------|------------------------------------|
| J2 | Reset |
| J4, J5 | IEEE 1588 Testing - SMA Connectors |
| R18, R19, C1, C21 | J4 Connector Supporting Components |
| R16, R17, C29, C39 | J5 Connector Supporting Components |

EVB-LAN7430 Evaluation Board User's Guide

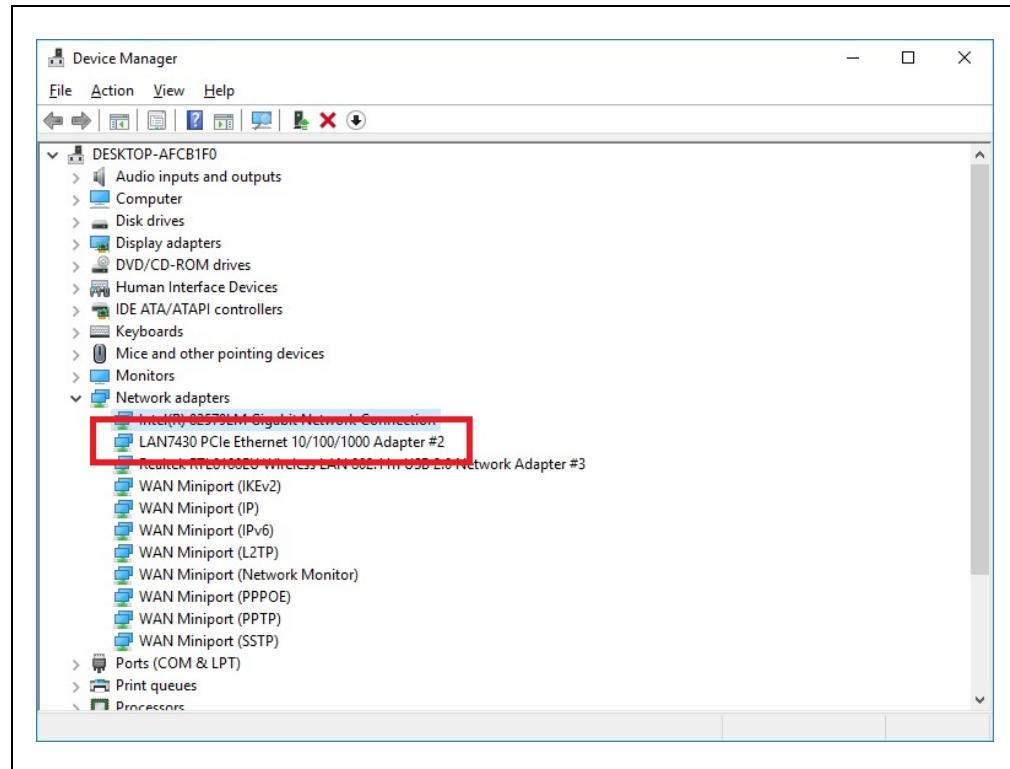
NOTES:

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.

EVB-LAN7430 Evaluation Board User's Guide

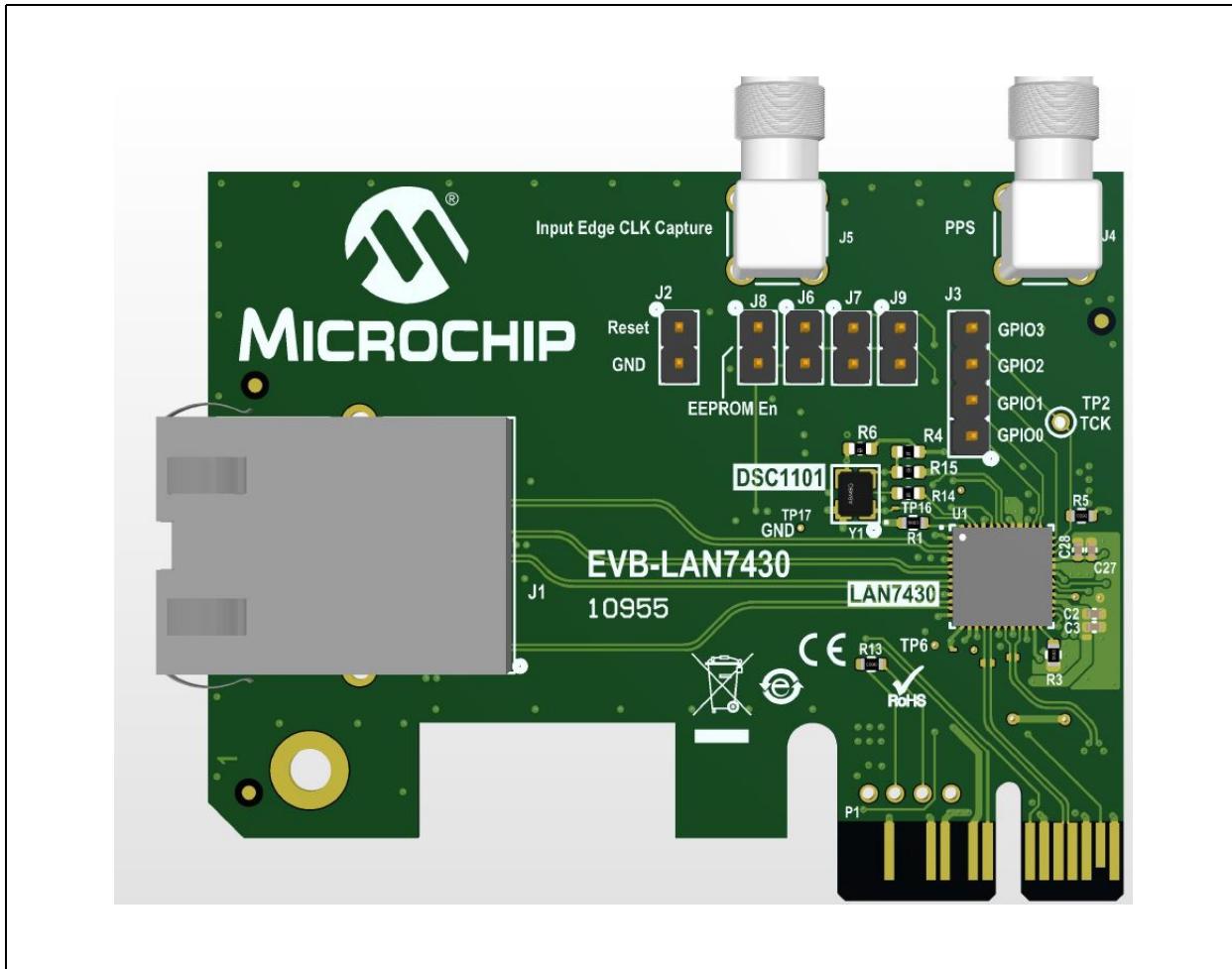
NOTES:

Appendix A. EVB-LAN7430 Evaluation Board

A.1 INTRODUCTION

This appendix shows the EVB-LAN7430 Evaluation Board.

FIGURE A-1: EVB-LAN7430 EVALUATION BOARD



EVB-LAN7430 Evaluation Board User's Guide

NOTES:



**EVB-LAN7430
EVALUATION BOARD
USER'S GUIDE**

Appendix B. Schematics

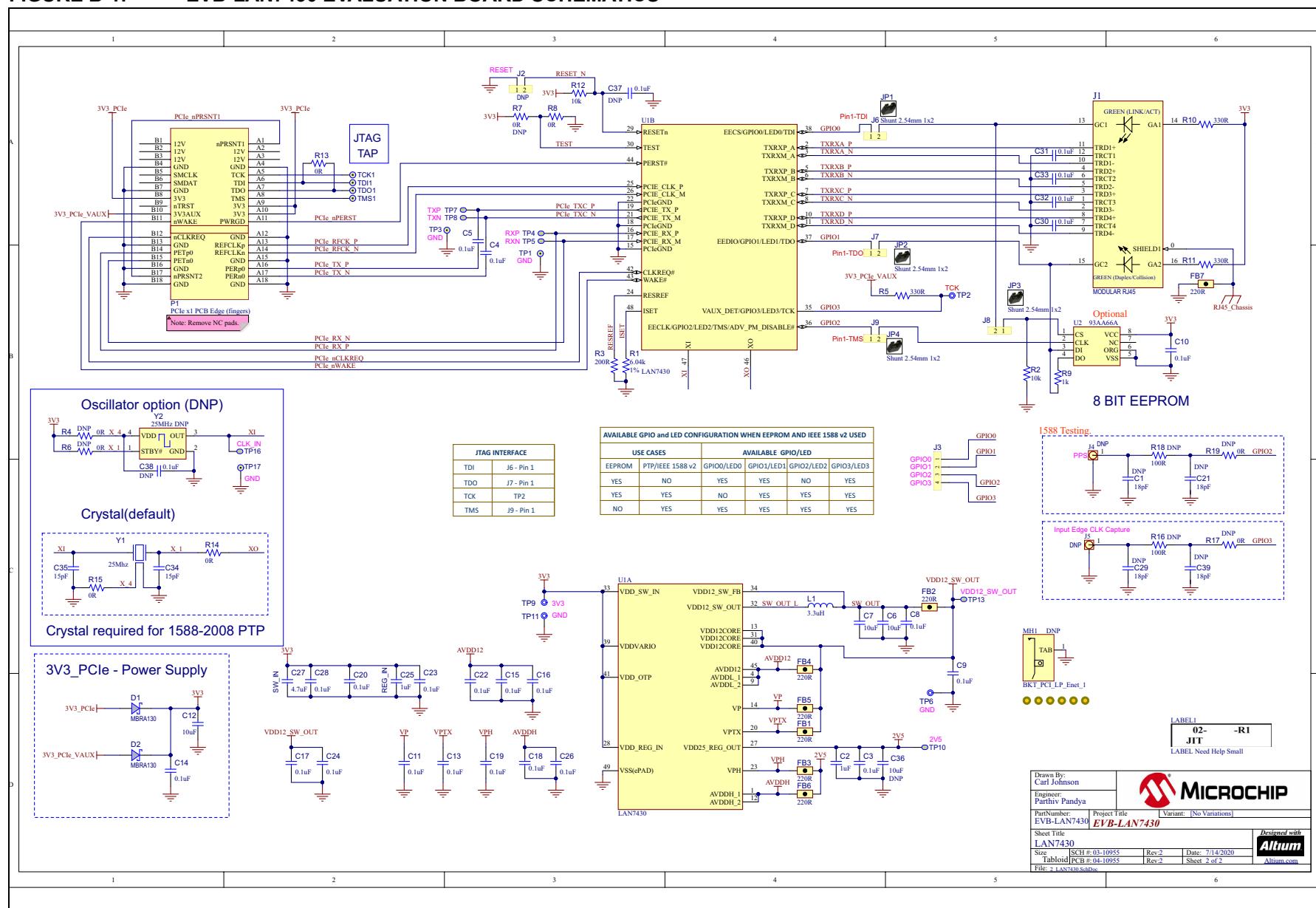
B.1 INTRODUCTION

This appendix shows the EVB-LAN7430 Evaluation Board schematics.

EVB-LAN7430 Evaluation Board User's Guide

FIGURE B-1: EVB-LAN7430 EVALUATION BOARD SCHEMATICS

DS50002841B-page 20





**EVB-LAN7430
EVALUATION BOARD
USER'S GUIDE**

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 | Manufacturer Part Number |
|------|-----|---|--|-----------|----------------------------------|--------------------------|
| 1 | 2 | C2, C25 | CAP CER 1uF 35V 10% X5R SMD 0402 | Yes | Murata Electronics North America | GRM155R6YA105KE11D |
| 2 | 24 | C3, C4, C5, C8, C9, C10, C11, C13, C14, C15, C16, C17, C18, C19, C20, C22, C23, C24, C26, C28, C30, C31, C32, C33 | CAP CER 0.1uF 50V 10% X7R SMD 0402 | Yes | TDK Corporation | C1005X7R1H104K050BB |
| 3 | 3 | C6, C7, C12 | CAP CER 10UF 25V 20% X5R SMD 0603 | Yes | Murata Electronics North America | GRM188R61E106MA73D |
| 4 | 1 | C27 | CAP CER 4.7uF 6.3V 20% X5R SMD 0402 | Yes | Murata | GRM155R60J475ME47D |
| 5 | 2 | C34, C35 | CAP CER 15pF 50V 5% NP0 SMD 0402 | Yes | Murata | GRM155C1H150JA01D |
| 6 | 2 | D1, D2 | DIO SCTKY MBRA130LT3G 410mV 1A 30V SMD DO-214AC SMA | Yes | ON Semiconductor | MBRA130LT3G |
| 7 | 7 | FB1, FB2, FB3, FB4, FB5, FB6, FB7 | FERRITE 500mA 220R SMD 0603 | Yes | Murata | BLM18AG221SN1D |
| 8 | 1 | J1 | CON MODULAR JACK RJ45 10/100/1000 MAGNETICS 2xLEDs SHIELD TH R/A | Yes | Amphenol Commercial Products | RJMG2012211A0FR |
| 9 | 1 | J3 | CON HDR-2.54 Male 1x4 Gold 5.84MH TH VERT | Yes | Wurth Electronics Inc | 61300411121 |
| 10 | 4 | J6, J7, J8, J9 | CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT | Yes | FCI | 77311-118-02LF |
| 11 | 1 | L1 | INDUCTOR 3.3uH 2.63A 20% SMD L3W3H1.2 | Yes | TDK Corporation | VLS3012HBX-3R3M |
| 12 | 1 | MH1 | Bracket, BKT_PCI_LP_Enet_1, GLOBE | Yes | Keystone | |
| 13 | 1 | R1 | RES TKF 6.04k 1% 1/10W SMD 0603 | Yes | Yageo | 9T06031A6041FBHFT |
| 14 | 2 | R2, R12 | RES TKF 10k 1% 1/10W SMD 0603 | Yes | Panasonic | ERJ-3EKF1002V |
| 15 | 1 | R3 | RES TKF 200R 1% 1/10W SMD 0603 | Yes | Panasonic | ERJ-3EKF2000V |
| 16 | 3 | R5, R10, R11 | RES TKF 330R 1% 1/10W SMD 0603 | Yes | Panasonic | ERJ-3EKF3300V |
| 17 | 4 | R8, R13, R14, R15 | RES TKF 0R 1/10W SMD 0603 | Yes | Panasonic | ERJ-3GSY0R00V |
| 18 | 1 | R9 | RES TKF 1k 5% 1/10W SMD 0603 | Yes | Panasonic | ERJ-3GEYJ102V |
| 19 | 1 | Y1 | CRYSTAL 25MHz 10pF SMD ABM8G | Yes | Abraco LLC | ABM8G-25.000MHZ-4Y-T3 |
| 20 | 1 | U1 | MCHP INTERFACE PCIe-GIGe ETHERNET LAN7430 SQFN-48 | Yes | Microchip Technology | LAN7430/YXX |
| 21 | 1 | U2 | MCHP MEMORY SERIAL EEPROM 4k Microwire 93AA66A-I/SN SOIC-8 | Yes | Microchip | 93AA66A-I/SN |
| 22 | 4 | C1, C21, C29, C39 | CAP CER 18pF 50V 5% NP0 SMD 0805 | NO | Cal-Chip | GMC21CG180J50NTLF |
| 23 | 1 | C36 | CAP CER 10UF 25V 20% X5R SMD 0603 | NO | Murata Electronics North America | GRM188R61E106MA73D |
| 24 | 2 | C37, C38 | CAP CER 0.1uF 50V 10% X7R SMD 0402 | NO | TDK Corporation | C1005X7R1H104K050BB |
| 25 | 1 | J2 | CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT | NO | FCI | 77311-118-02LF |

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

| Item | Qty | Reference | Description | Populated | Manufacturer | Manufacturer Part Number |
|------|-----|--------------------|---|-----------|---------------------------------|--------------------------|
| 26 | 2 | J4, J5 | CON RF Coaxial SMA Female TH R/A | NO | TE Connectivity AMP Connectors | 5-1814400-1 |
| 27 | 3 | R4, R6, R7 | RES TKF 0R 1/10W SMD 0603 | NO | Panasonic | ERJ-3GSY0R00V |
| 28 | 2 | R16, R18 | RES MF 100R 5% 1/10W SMD 0805 | NO | Panasonic Electronic Components | ERA-S39J101V |
| 29 | 2 | R17, R19 | RES TKF 0R 1/8W SMD 0805 | NO | Panasonic | ERJ-6GEY0R00V |
| 30 | 4 | JP1, JP2, JP3, JP4 | Shunt connectors for J6, J7, J8, and J9 | Yes | TE Connectivity AMP | 880584-4 |



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

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: 45-4485-5910
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: 49-7131-72400
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