MicroZed Industry 4.0 Ethernet Kit - Quick Start Card





Electronics Marketing

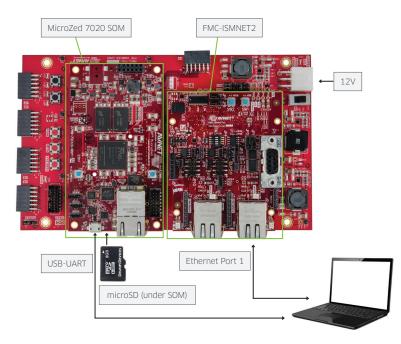


Technology

This Quick Start Card provides step-by-step instructions to assemble the kit hardware. Documentation and executable files for the HMS Anybus™ IP reference design of an EtherCAT® Slave may be downloaded from the link in the final steps of these instructions.

Setup

- Connect the MicroZed 7020 SOM and FMC-ISMNET2 module to the MicroZed FMC Carrier as shown below.
- 2. Connect the 12V power supply as shown.
- 3. Attach the Ethernet cable to the FMC-ISMNET2 module Port1 jack and a host PC.
- 4. Connect the USB cable to the MicroZed 7020 SOM USB-UART port and the host PC.
- 5. Go to www.microzed.org/support/documentation/ to download and install the Silicon Labs CP2104 USB-to-UART driver on the host PC.
- Go to www.hms-networks.com/anybusip to download the HMS Anybus IP tutorial and executable for the EtherCAT Slave reference design.



Please visit www.microzed.org for kit documentation and technical questions.

LICENSE AGREEMENT

THE AVNET DESIGN KIT "DESIGN KIT" OR "PRODUCT") AND ANY SUPPORTING DOCUMENTATION ("DOCUMENTATION" OR "PRODUCT DOCUMENTATION") IS SUBJECT TO THIS LICENSE AGREEMENT ("LICENSE"). USE OF THE PRODUCT OR DOCUMENTATION SIGNIFIES ACCEPTANCE OF THE TERMS AND CONDITIONS OF THIS LICENSE. THE TERMS OF THIS LICENSE AGREEMENT ARE IN ADDITION TO THE AVNET CUSTOMER TERMS AND CONDITIONS, WHICH CAN BE VIEWED AT www.em.avnet.com. THE TERMS OF THIS LICENSE AGREEMENT WILL CONTROL IN THE EVENT OF A CONFLICT.

- 1. Limited License. Avnet grants You, the Customer, ("You" "Your" or "Customer") a limited, non-exclusive, non-transferable, license to: (a) use the Product for Your own internal testing, evaluation and design efforts at a single Customer site; (b) create a single derivative work based on the Product using the same semiconductor supplier product or product family as used in the Product, and (c) make, use and sell the Product in a single production unit. No other rights are granted and Avnet and any other Product licensor reserves all rights not specifically granted in this License Agreement. Except as expressly permitted in this License, neither the Design Kit, Documentation, nor any portion may be reverse engineered, disassembled, decompiled, sold, donated, shared, leased, assigned, sublicensed or otherwise transferred by Customer. The term of this License is in effect until terminated. Customer may terminate this license at any time by destroying the Product and all copies of the Product Documentation.
- 2. Changes. Avnet may make changes to the Product or Product Documentation at any time without notice. Avnet makes no commitment to update or upgrade the Product or Product Documentation and Avnet reserves the right to discontinue the Product or Product Documentation at any time without notice.
- 3. Limited Warranty, ALL PRODUCTS AND DOCUMENTATION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. AVNET MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS AND DOCUMENTATION PROVIDED HERUNDER. AVNET SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY AGAINST INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY WITH REGARD TO THE PRODUCTS AND DOCUMENTATION.
- 4. LIMITATIONS OF LABILITY. CUSTOMER SHALL NOT BE ENTITLED TO AND AVNET WILL NOT LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE, INCLUDING, WITHOUT LIMITATION, BUSINESS INTERRUPTION COSTS, LOSS OF PROFIT OR REVENUE, LOSS OF DATA, PROMOTIONAL OR MANUFACTURING EXPENSES, OVERHEAD, COSTS OR EXPENSES ASSOCIATED WITH WARRANTY OR INTELLECTUAL PROPERTY INFRINGEMENT, SUILY TO REPUTATION OR LOSS OF CUSTOMERS, EVEN IF AVNET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRODUCTS AND DOCUMENTATION ARE NOT DESIGNED, AUTHORIZED OR WARRANTED TO BE SUITABLE FOR USE IN MEDICAL, MILITARY, AIR CRAFT, SPACE OR LIFE SUPPORT EQUIPMENT NOR IN APPLICATIONS WHERE FAILURE OR MALFUNCTION OF THE PRODUCTS CAN REASONABLY BE EXPECTED TO RESULT IN A PERSONAL INJURY, DEATH OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. INCLUSION OR USE OF PRODUCTS IN SUCH EQUIPMENT OR APPLICATIONS, WITHOUT PRIOR AUTHORIZATION IN WRITING OF AVNET, IS NOT PERMITTED AND IS AT CUSTOMERS OWN RISK. CUSTOMER AGREES TO FULLY INDEMNIFY AVNET FOR ANY DAMAGES RESULTING FROM SUCH INCLUSION OR USE.
- 5. LIMITATION OF DAMAGES. CUSTOMER'S RECOVERY FROM AVNET FOR ANY CLAIM SHALL NOT EXCEED CUSTOMER'S PURCHASE PRICE FOR THE PRODUCT GIVING RISE TO SUCH CLAIM IRRESPECTIVE OF THE NATURE OF THE CLAIM, WHETHER IN CONTRACT, TORT, WARRANTY, OR OTHERWISE.
- 6. INDEMNIFICATION. AVNET SHALL NOT BE LIABLE FOR AND CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD AVNET HARMLESS FROM ANY CLAIMS BASED ON AVNET'S COMPLIANCE WITH CUSTOMER'S DESIGNS, SPECIFICATIONS OR INSTRUCTIONS, OR MODIFICATION OF ANY PRODUCT BY PARTIES OTHER THAN AVNET, OR USE IN COMBINATION WITH OTHER PRODUCTS.
- 7. U.S. Government Restricted Rights. The Product and Product Documentation are provided to or made available to the United States Government, any use, duplication, or disclosure by the United States Government is subject to restrictions applicable to proprietary commercial computer software as set forth in FAR 52.227-14 and DFAR 252.227-7013, et seq., its successor and other applicable laws and regulations. Use of the Product by the United States Government constitutes acknowledgment of the proprietary rights of Avnet and any third parties. No other governments are authorized to use the Product without written agreement of Avnet and applicable third parties.
- 8. Ownership. Licensee acknowledges and agrees that Avnet or Avnet's licensors are the sole and exclusive owner of all Intellectual Property Rights in the Licensed Materials, and Licensee shall acquire no right, title, or interest in the Licensed Materials, other than any rights expressly granted in this Agreement.
- 9. Intellectual Property. All trademarks, service marks, logos, slogans, domain names and trade names (collectively "Marks") are the properties of their respective owners. Avnet disclaims any proprietary interest in Marks other than its own. Avnet and AV design logos are registered trademarks and service marks of Avnet, Inc. Avnet's Marks may be used only with the prior written permission of Avnet, Inc.
- 10. General. The terms and conditions set forth in the License Agreement or at www.em.avnet.com will apply notwithstanding any conflicting, contrary or additional terms and conditions in any purchase order, sales acknowledgement confirmation or other document. If there is any conflict, the terms of this License Agreement will control. This License may not be assigned by Customer, by operation of law, merger or otherwise, without the prior written consent of Avnet and any attempted or purported assignment shall be void. Licensee understands that portions of the Licensed Materials may have been licensed to Avnet from third parties and that such third parties are intended beneficiaries of the provisions of this Agreement are for any reason determined to be void or unenforceable, the remaining provisions will remain in full effect. This constitutes the entire agreement between the parties with respect to the use of this Product, and supersedes all prior or contemporaneous understandings or agreements, written or oral, regarding such subject matter. No waiver or modification is effective unless agreed to in writing and signed by authorized representatives of both parties. The obligations, rights, terms and conditions shall be binding on the parties and their respective successors and assigns. The License Agreement is governed by and construed in accordance with the laws of the State of Arizona excluding any law or principle, which would apply the law of any other jurisdiction. The United Nations Convention for the International Sale of Goods shall not apply.