ISA10416

16 Bit ISA to PC/104 Bus Adapter

Model No.   100-7559
Doc. No.   M7559   Rev: 1.1   6/20/06

DISCLAIMER: This document contains proprietary information regarding SCIDYNE and its products. The information is subject to change without notice. SCIDYNE makes no warranty of any kind with regard to this material, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose. SCIDYNE shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. No part of this document may be duplicated in any form without prior written consent of SCIDYNE.

WARRANTY: SCIDYNE warrants this product against defects in materials and workmanship and, that it shall conform to specifications current at the time of shipment, for a period of one year from date of shipment. Duration and conditions of warranty may be superseded when the product is integrated into other SCIDYNE products. During the warranty period, SCIDYNE will, at its option and without charge to Buyer, either repair or replace products which prove defective. Repair or replacement of a defective product or part thereof does not extend the original warranty period.

WARRANTY SERVICE: For warranty service or repair, this product must be returned to a service facility designated by SCIDYNE. The Buyer must obtain prior approval and a Return Material Authorization (RMA) number before returning any products. The RMA number must be clearly visible on the shipping container. The Buyer shall prepay shipping and insurance charges to the service facility and SCIDYNE shall pay shipping and insurance charges to Buyer's facility for products repaired or replaced. SCIDYNE may, at its discretion, bill the Buyer for return shipping and insurance charges for products received for repair but determined to be non-defective. Additionally, the Buyer shall pay all shipping charges, duties and taxes for products returned to SCIDYNE from another country.

LIMITATION OF WARRANTY
The forgoing warranty shall not apply to defects resulting from improper or negligent maintenance by the Buyer, Buyer-supplied products or interfacing, unauthorized modifications or misuse, operation outside the published specifications of the product or improper installation site preparation or maintenance, or the result of an accident. The design and implementation of any circuit using this product is the sole responsibility of the Buyer. SCIDYNE does not warrant the Buyer's circuitry or malfunctions of SCIDYNE products that result from the Buyer's circuitry. In addition, SCIDYNE does not warrant any damage that occurs as a result of the Buyer's circuit or any defects that result from Buyer-supplied products. This Warranty does not cover normal preventative maintenance items such as fuse replacement, lamp replacement, resetting of circuit breakers, cleaning of the Product or problems caused by lack of preventative maintenance, improper cleaning, improper programming or improper operating procedures. No other warranty is expressed or implied. SCIDYNE specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the Buyer. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

CERTIFICATION
Testing and other quality control techniques are utilized to the extent SCIDYNE deems necessary to support this warranty. Specific testing of all parameters is not necessarily performed, except those mandated by government requirements.

30-DAY PRODUCT EVALUATION POLICY: SCIDYNE offers a no-risk trial for initial, low quantity, evaluation purchases. Items purchased for evaluation can be returned within 30 days for a full refund less shipping charges. The Buyer must obtain a Return Material Authorization (RMA) number before returning any products. The entire package, including hardware, software, documentation, discount coupons and any other accessories supplied must be returned intact and in new and working condition. This policy will not be honored for packages that are not returned complete and intact. The Buyer shall prepay shipping and insurance charges to SCIDYNE. To expedite the return process, the RMA number must be clearly visible on the shipping container. SCIDYNE will cancel the invoice, refund by check or issue credit to your credit card within 10 days after receipt of returned merchandise.

LIFE SUPPORT POLICY
Certain applications may involve the risks of death, personal injury or severe property or environmental damage ("Critical Applications").

SCIDYNE products are not designed, intended, authorized or warranted to be suitable for use in life-support applications, devices or systems or other critical applications without the express written approval of the president of SCIDYNE.

SAFETY AND USAGE CONVENTIONS

✎ NOTE: *Contains important information and useful tips that will assist in the understanding and operation of the product.*
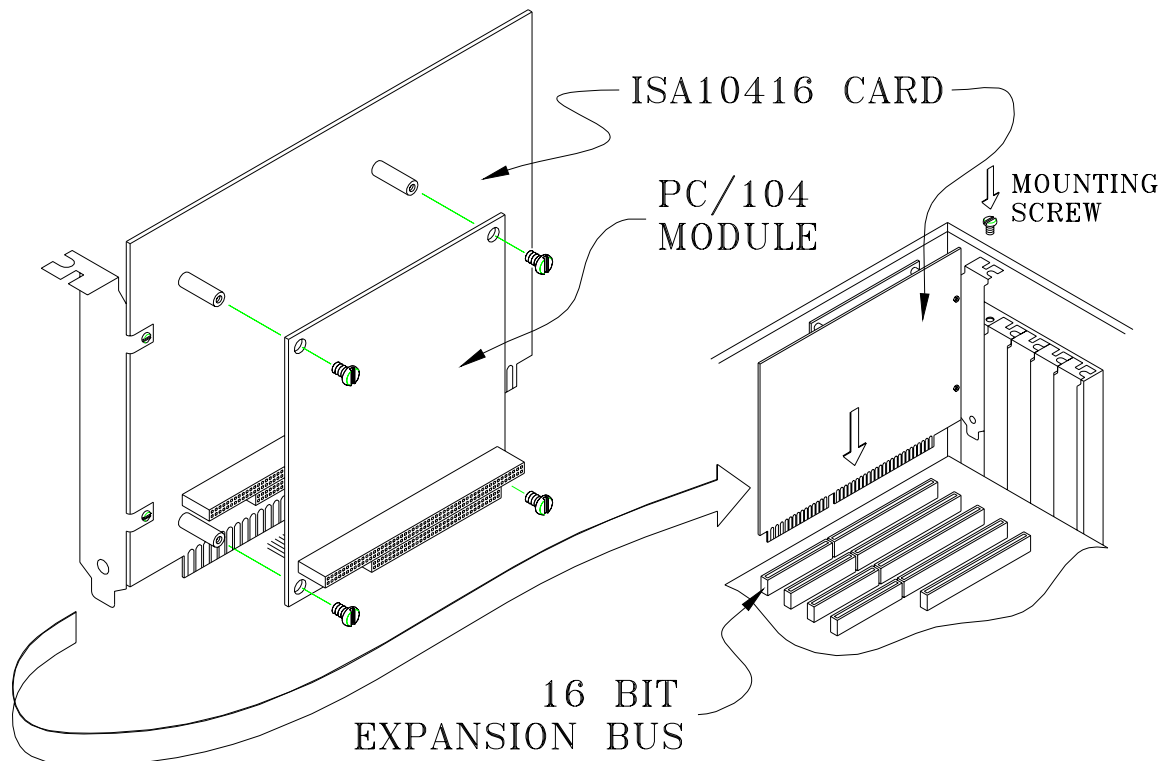
✋ CAUTION: *Calls attention to a procedure, practice or condition that could possibly cause personal injury or damage to equipment.*

⚠ WARNING: *Calls attention to a procedure, practice or condition that could possibly cause severe bodily injury, death or extensive equipment damage.*

Introduction

The ISA10416 is a half-size ISA card that allows 8 and 16 bit PC/104 modules to be used in ISA bus computers. The main purpose is to allow PC/104 modules to be developed, tested and used within a standard ISA platform. In operation, a PC/104 module is installed on the ISA10416 card and the card is then inserted into one 16 bit slot within the PC ISA host. No special "drivers" or other considerations are necessary for the users' programs to access and operate the installed PC/104 module. The ISA10416 transparently performs a direct bus-to-bus conversion and operates at the full speed of the PC ISA host. All the facilities of the host computer are available to the PC/104 module including memory and I/O operations, DMA and interrupts. A prototyping area is provided for the construction of experimental and application specific circuitry.

The hosted PC/104 module mounts "piggyback" to the backside of the ISA10416 card. Care should be taken not to accidentally bend one of the PC/104 module connector leads during installation. The resulting stack will be wider than a normal ISA card. For this reason the slot where the ISA10416 will reside should have adequate room around it so that the PC/104 module will not interfere with any adjacent cards or other objects. The self-stacking nature of the PC/104 bus allows multiple modules to be used at the same time, limited only by the space available within the host computer.

Figure 1 - ISA10416 Installation