

OPERATIONS MANUAL ENC-104

NOTE: *This manual has been designed and created for use as part of the WinSystems' Technical Manuals CD and/or the WinSystems' website. If this manual or any portion of the manual is downloaded, copied or emailed, the links to additional information (i.e. software, cable drawings) will be inoperable.*

WinSystems reserves the right to make changes in the circuitry and specifications at any time without notice.

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ECO Number

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010604

A

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General Information

Features

- Accepts PC/104 and PC/104-Plus modules
- Up to four PC/104 modules can be mounted inside
- Slotted cable exits offer flexibility
- User configurable or standard end plates
- Slotted keyholes for easy mounting
- Vented side walls for heat dissipation
- Ample room for cable runs inside the box
- Optional 40W power supply
- Light-weight aluminum construction
- Black powder coat finish
- Size: 7.125"W x 8.325"D x 4.0"H

General Information

The ENC-104 is a simple, low-cost enclosure for PC/104 systems. The enclosure allows a designer to package a variety of system configurations quickly and easily to take full advantage of the reliability, small size and low power of PC/104 and PC/104-Plus modules. Typical mounting is in a NEMA box, wiring closet, equipment room, and other areas where it is necessary to protect a PC/104 module stack.

The interior of the enclosure is large enough to install any PC/104 module, even those with latching I/O connectors. The additional room also simplifies cable routing plus supports service loops to connectors mounted on the end panels.

Specifications

Material Composition

Chassis and Cover : 0.062" Aluminum
Finish : Black Powder Coat (except for the PC/104 Plate, that is clear)

Mechanical

Size : 7.125"W x 8.235"D x 4.0"H
Weight : 1.65 pounds

ENC-104 Technical Reference

I/O Interface

The ENC-104 is equipped with a Multi-I/O Endplate terminating LPT, PS2 Keyboard, PS2 Mouse, ENET, and 4 COM channels. Refer to the PPM-TX Operations Manual for technical requirements. A depiction of the I/O Endplates is in APPENDIX A.

DC Power Interface

External DC power is supplied to the ENC-104 through an eight position Barrier terminal strip mounted on an Endplate. Input to the terminal strip is shown in APPENDIX A.

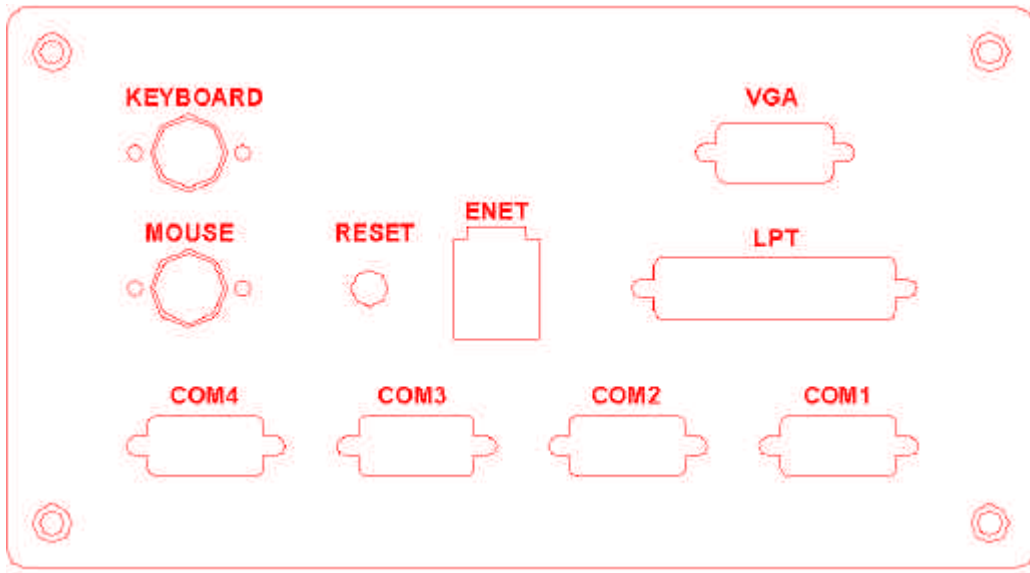
Drivers/Utilities

The ENC-104 packages several PCM/PPM CPU's, as well as other WinSystems' PCM/PPM architecture products.

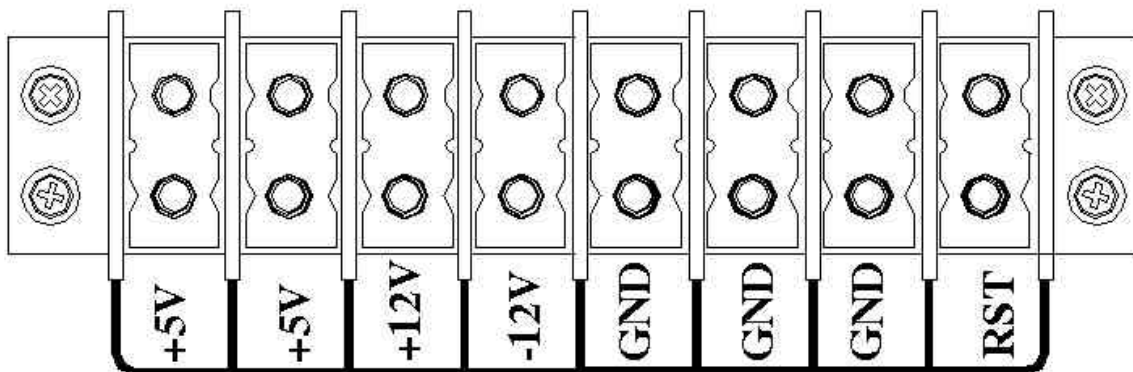
Drivers and utilities for supported items can be found on WinSystems' website:
<http://www.winsystems.com>

APPENDIX A

ENC-104 I/O ENDPLATE INTERFACE



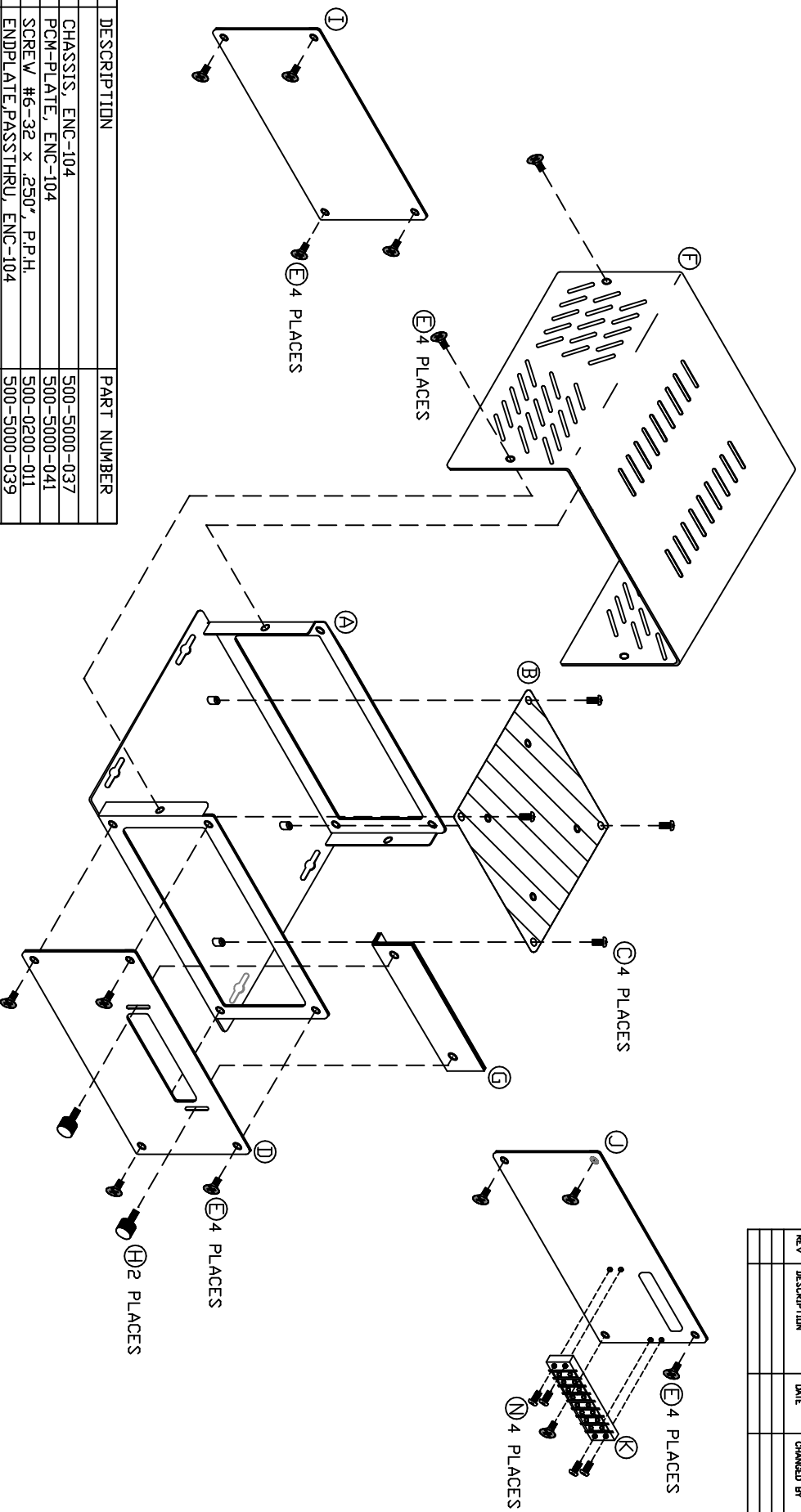
ENC-104 EXTERNAL DC POWER INTERFACE



APPENDIX B

ENC-104 Isometric Drawings

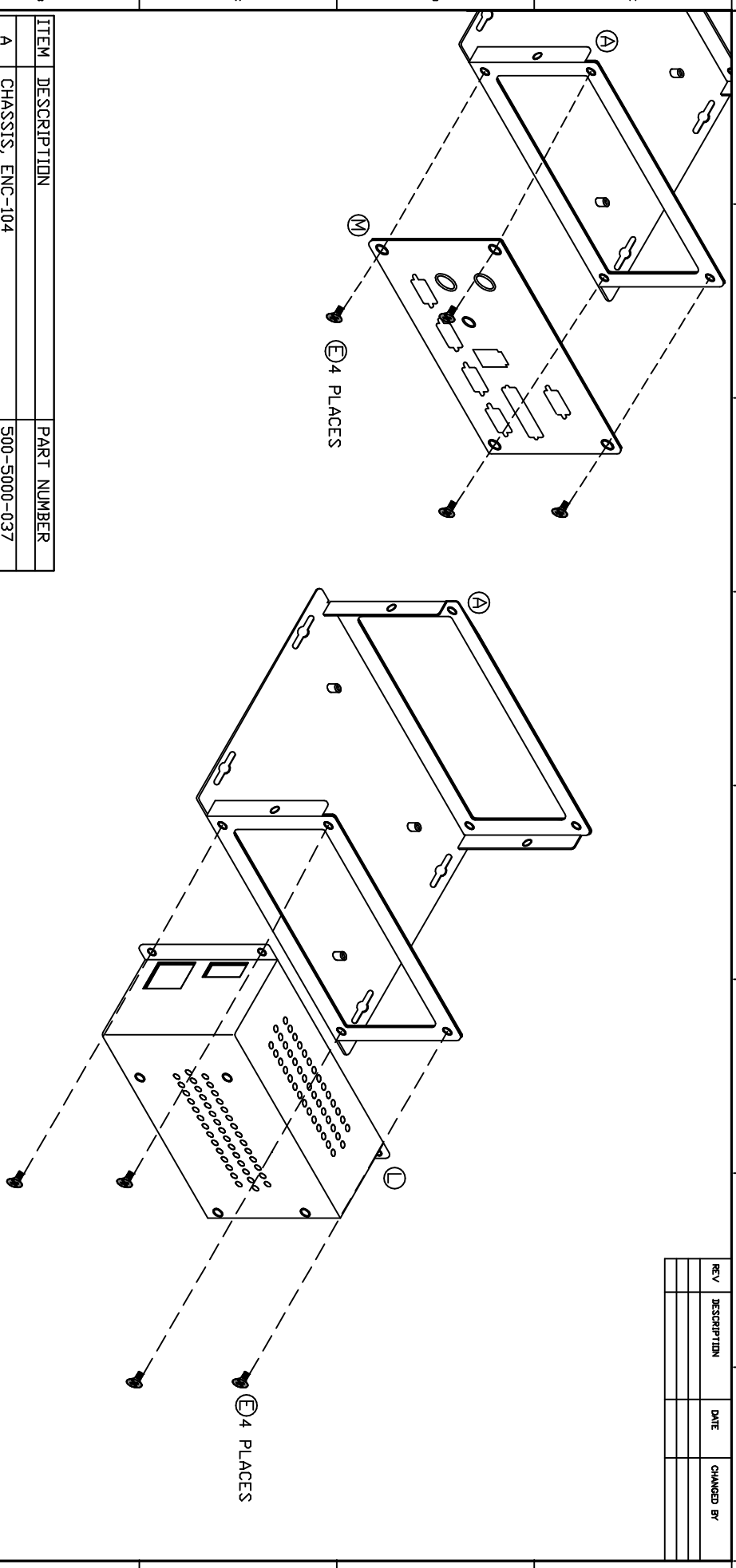
REV#	DESCRIPTION	DATE	CHANGED BY



ITEM	DESCRIPTION	PART NUMBER
A	CHASSIS, ENC-104	500-5000-037
B	PCM-PLATE, ENC-104	500-5000-041
C	SCREW #6-32 x .250", P.P.H.	500-0200-011
D	ENDPLATE,PASSTHRU, ENC-104	500-5000-039
E	SCREW #6-32 x .250", P.F.H., BLACK	500-0200-182
F	COVER, ENC-104	500-5000-038
G	CLAMP, HARNESS, ENC-104	500-5000-040
H	THUMB SCREW, #4-40 x .312"	500-0200-183
I	ENDPLATE BLANK, ENC-104	500-5000-042
J	ENDPLATE DC / TERMINAL, ENC-104	500-5000-046
K	TERMINAL BARRIER STRIP, 8 POSITION	500-0200-177
L	COVER 40V POWER SUPPLY	500-5000-044
M	ENDPLATE ID ENC-104	500-5000-045
N	SCREW #6-32 x .500", P.P.H.	500-0200-008

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE: FRACTIONS DECIMALS: ANGLES: ± 1/2° .XX ± .03 .XXX ± .010 MACHINE FINISH ✓		CONTRACT NUMBER: _____ DRAWN BY: M.BROUWING DATE: 02-18-03 CHECKER: _____ DATE: _____ APPROVAL: _____ DATE: _____ COST APPRV: _____ DATE: _____	
THIS DRAWING IS OUR PROPERTY. LOANED DRAWINGS TO BE RETURNED TO US IMMEDIATELY. WinSystems, Inc. "THE CHANGERS OF AUTOMATICITY"		TITLE: ENC-104 ASSEMBLY DRAWING DRAWING NUMBER: ENC104ASSEMBLY.DWG DWG ASSMBL / DIVGSSVENC104SDG.DWG CASE/FSCM SCALE: _____ LAUB7 SHT 1 OF 2	

REV	DESCRIPTION	DATE	CHANGED BY



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A	CHASSIS, ENC-104	500-5000-037
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F	COVER, ENC-104	500-5000-038
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UNLESS OTHERWISE SPECIFIED
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DECIMALS: .001" FRACTIONS
ANGLES: 1/2°

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DRAWN BY: **M.BROUWING** DATE: **02-18-03**

CHECKER: _____ DATE: _____

APPROVAL: _____ DATE: _____

CUST. APPRV: _____ DATE: _____

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TITLE: **ASSEMBLY DRAWING**

DWG ASS'N: **ENC104ASSEMBLY**

SCALE: _____

DATE: _____

SIZE: **D**

REV: **A**

LAB: **1A97**

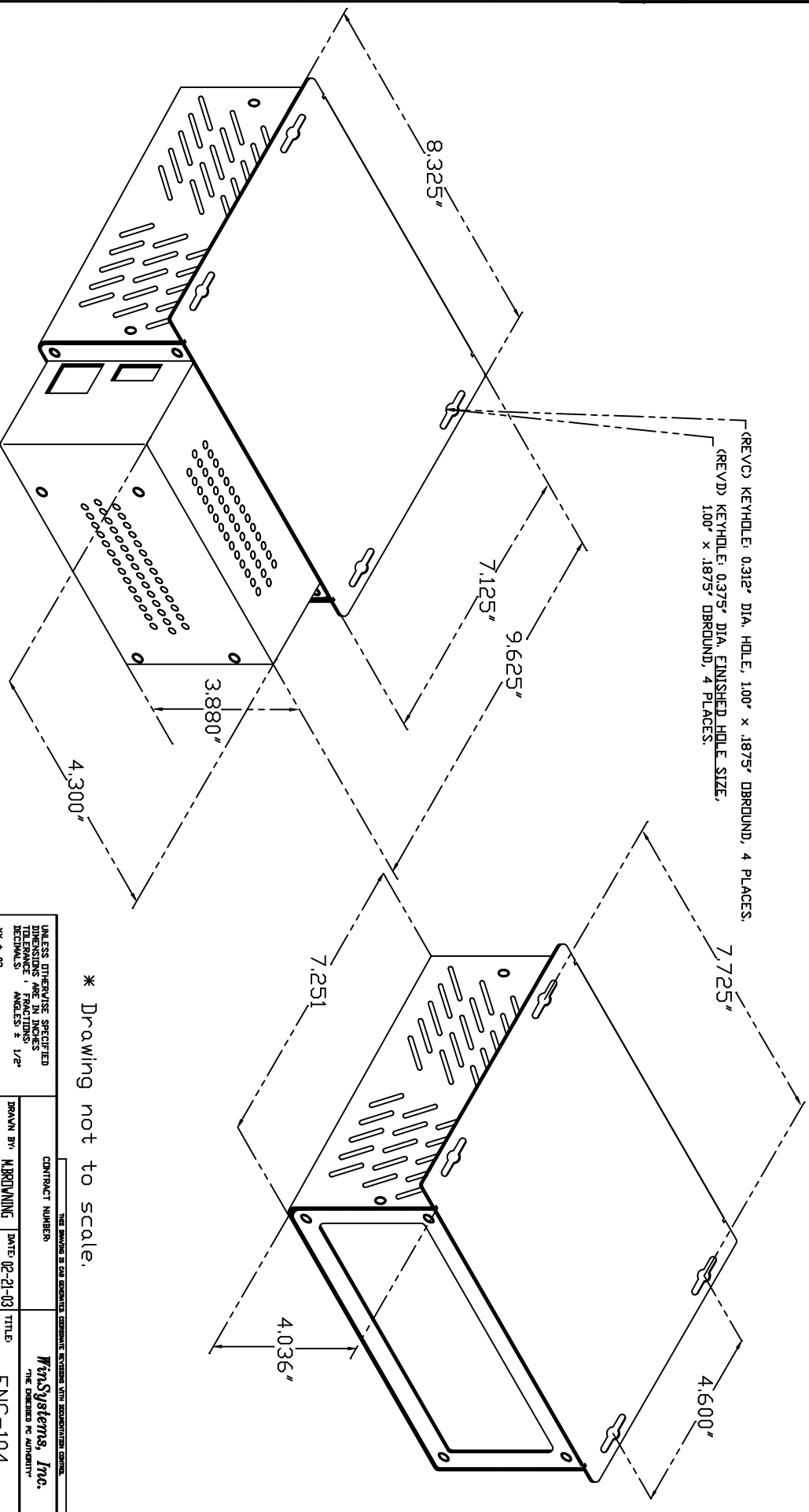
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APPENDIX C

ENC-104 Physical Dimensions

REV	DESCRIPTION	DATE	CHANGED BY



* Drawing not to scale.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO BE GIVEN IN DECIMALS TOLERANCE: FRACTIONS: 1/2" DECIMALS: .XX ± .03 .XXX ± .010		MACHINE FINISH	
CONTRACT NUMBER		TITLE	
DRAWN BY: MBR/WJ/NMG	DATE: 02-21-03	ENC-104	
CHECKER:	DATE:	DIMENSIONAL/MOUNTING	
APPROVAL:	DATE:	DRAWING NUMBER: DWG/ASSEMBLY/DWG/ENC/ADM/DWG	
CUST. APPRV.:	DATE:	SCALE: 1/8" = 1"	SHEET: 1 OF 1

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WARRANTY SERVICE

All products returned to WinSystems must be assigned a Return Material Authorization (RMA) number. To obtain this number, please call or FAX WinSystems' factory in Arlington, Texas and provide the following information:

1. Description and quantity of the product(s) to be returned including its serial number.
2. Reason for the return.
3. Invoice number and date of purchase (if available), and original purchase order number.
4. Name, address, telephone and FAX number of the person making the request.
5. Do not debit WinSystems for the repair. WinSystems does not authorize debits.

After the RMA number is issued, please return the products promptly. Make sure the RMA number is visible on the outside of the shipping package.

The customer must send the product freight prepaid and insured. The product must be enclosed in an anti-static bag to protect it from damage caused by static electricity. Each bag must be completely sealed. Packing material must separate each unit returned and placed as a cushion between the unit(s) and the sides and top of the shipping container. WinSystems is not responsible for any damage to the product due to inadequate packaging or static electricity.