

Figure 1

1. INTRODUCTION

X2 Die Cast Guide Rail Assemblies 1367709-1 and 1367710-1 are used to interconnect X2 modules to a host printed circuit (pc) boards. This instruction sheet *only* covers the installation of the guide rail assembly onto the host pc board. The appropriate connector must be seated on the host pc board *before* the guide rail assembly is installed. These guide rail assemblies are suitable for single-sided or double-sided applications. The guide rail assembly must be bezel mounted.

NOTE



All numerical values in this instruction sheet are in metric units [with U.S. customary units in brackets]. Dimensions are in millimeters. Figures are not drawn to scale.

Guide Rail Assembly 1367709-1 is designed to be installed onto a host pc board with microstrip (surface) traces. A rear portion of the guide rail is raised to provide an unobstructed path for the traces.

Guide Rail Assembly 1367710-1 is designed to be installed onto a host pc board with stripline (buried) traces. The rear of the guide rail will seat on the host pc board.

CAUTION



The guide rail assembly is designed to guide the module into the connector. Forces applied axially to the module are intended to be withstood by the guide rail, and forces applied vertically or sideways to the module are intended to be withstood by the bezel.

2. DESCRIPTION

The guide rail assembly is a metal rail with 12 guide blocker pins, four 1.62-mm diameter 0-80 threaded through holes, and an electromagnetic interference (EMI) gasket. See Figure 1.

The threaded through holes accept customer-supplied screws to secure the guide rail to the host pc board. Select the screws according to the following:

For single-sided application, use pan head screws having a length of 2 mm longer than the thickness of the host pc board.

For double-sided application, use socket head cap screws (to avoid possible interference with the module during insertion) having a length of 4 mm longer than the thickness of the host pc board.

3. INSTALLATION

NOTE



These instructions assume that the host pc board has been properly designed and that the connector(s) has been properly seated on the host pc board.

1. Align the guide blocker pins of the guide rail with the applicable holes in the host pc board, and apply only that force necessary to seat the rail onto the pc board.

For double-sided application, install another guide rail onto the opposite side of the host pc board in the same manner.

2. For single-sided application, insert the screws through the 1.57-mm diameter holes in the host pc board and into the threaded through holes in the guide rail. Refer to Figure 2.

Single-Sided Application

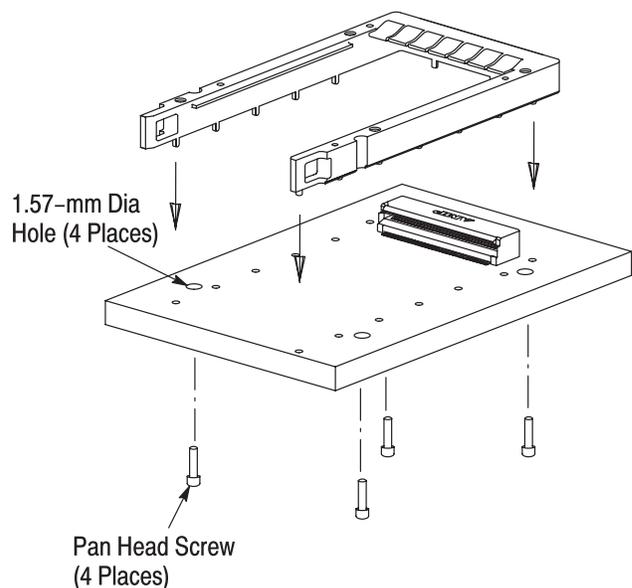


Figure 2

For double-sided application, insert the socket head cap screws through the threaded through holes in the top guide rail, into the 1.57-mm diameter holes in the host pc board, and into the threaded through holes in the bottom guide rail. Refer to Figure 3.

3. Tighten the screws to a torque of .113 Nm [1.0 in-lb.].
4. Check to make sure that there is no gap between the guide rail and the host pc board. Refer to Figure 4.

NOTE



The rear portion of the guide rail designed for a board with microstrip traces should not touch the board.

Double-Sided Application

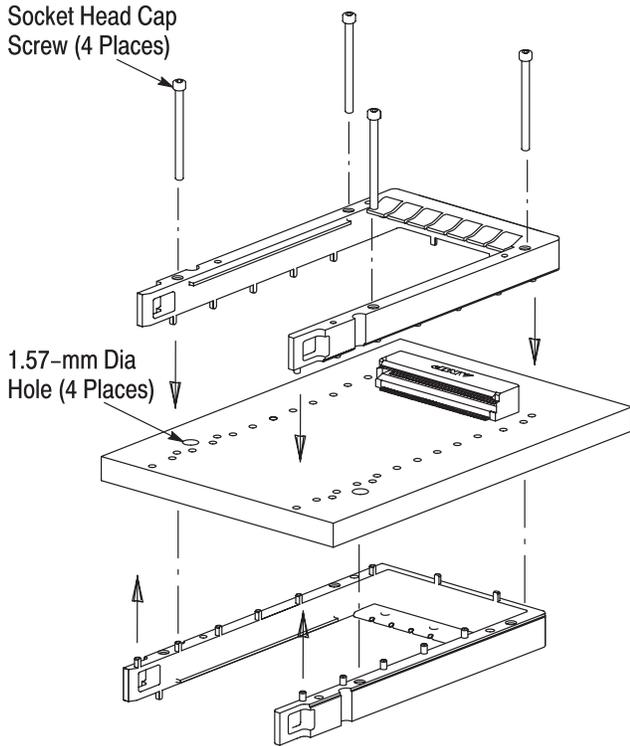


Figure 3

Installed Guide Rail Assembly

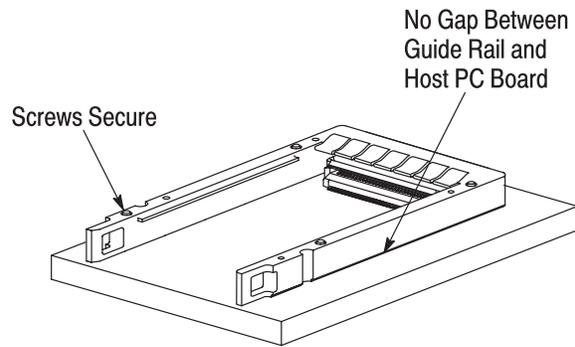


Figure 4

4. REVISION SUMMARY

- Updated logo.