



Ironwood
ELECTRONICS

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Socket with SM Interposer - **Assembly and Maintenance Instructions**

Assembly of the SM Interposer to the Socket:

- The socket may come with the SM interposer already assembled to the socket body.
- To install or remove the SM, please proceed with the following steps.
- Blow off both sides with compressed air during assembly to remove any debris. Do not touch or rub the SM columns.
- Install the SM so the DUT leads touch the SM columns on one side and the PCB pads touch the SM columns on the other side.
- Gently press one of the SM tooling holes over a first corresponding guide pin.
- Do the same for the other tooling hole and guide pin diagonally opposite.
- When both tooling holes are on the guide pins, use a flat tip tweezers or similar tool to ease the SM further down onto the pins, alternating opposing corners until it is seated against the socket.
- Work carefully to avoid enlarging or deforming the SM tooling holes.
- Work the opposite direction to remove the SM, carefully easing it off the guide pins. Do not use a sharp instrument and/or grab one corner and pull it off the guide pins because it can cause damage to the SM tooling holes.

Assembly of the Socket to the PCB:

- Assure that the test site PCB pads and immediately surrounding surfaces are free of contaminants and any sticky or chemical residues. Then blow clean with compressed air.
- Place the socket's alignment pins into the corresponding holes in the PCB.
- Hold the socket stiffener on the back side of the PCB so it lines up with the mounting holes.
- Secure the socket to the PCB and stiffener using the mounting screws or fasteners. Assure that the socket is firmly seated and coplanar with the PCB.

Removal and Storage of the Socket:

- Remove the socket from the PCB and store with the SM attached in the protective packaging provided. Do not allow multiple sockets to rub against each other.
- If the SM interposer is separate from the socket, always keep it contained and protected in the supplied packaging box and/or small bags. This will keep the SM from being touched or damaged and prevent the accumulation of dust and debris.
- If the socket remains attached to the PCB, it is recommended to store the socket with the lid open so the SM remains un-actuated (not compressed) during that time, which will help extend the life.

Handling and Cleaning of the SM Interposer:

- Always handle the SM by the outside edges and avoid touching the top and bottom of the conductive columns.
- Important: Do not touch or rub the conductive columns of SM.
- Never use a stiff/wire brush on the SM interposer.
- Never use any alcohol or cleaning chemicals on the SM. If the PCB is cleaned with chemicals, always be sure it is completely dry prior to touching the SM.
- Use compressed air to blow dust/debris from the top and bottom of the SM prior to use and assembly.
- If there is debris that cannot be removed by air, use a soft animal hair brush to lightly clean the SM. It may also be helpful to use a microscope and tweezers to remove some contaminants.
- Note: Some loose silver particles from the SM conductive columns are normal and do not impact functionality. If there is excessive particle dispersion, please contact Ironwood Electronics at 1-800-404-0204 or info@ironwoodelectronics.com.