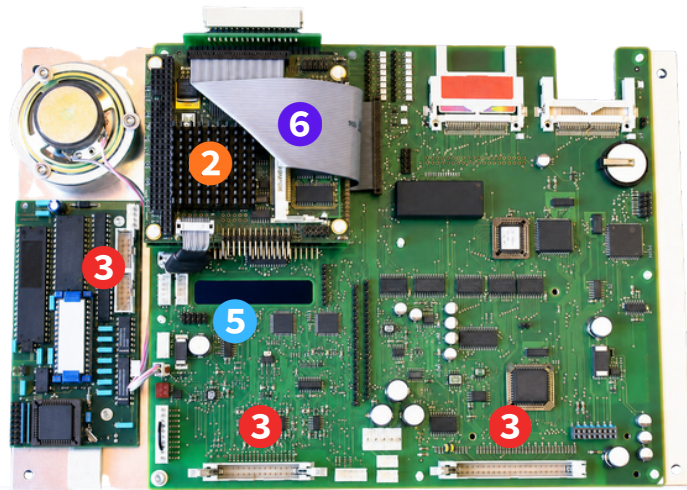


Mechanical Ventilator System



Success Story: Custom Spring-Loaded Pin Assembly for an Infusion Pump

Adam Tech developed a custom spring-loaded pin assembly for a medical pump, ensuring reliable power and signal transmission between the device and its docking interface. Its compact, spring-loaded design enables precise alignment, secure contact, and dependable performance over repeated mating cycles in demanding clinical environments.

Infusion Pump



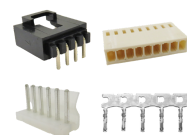
1 Spring-Loaded Connectors and Magnetic Cable Assemblies

- High-reliability electrical connection
- Customizable for various mechanical and electrical requirements
- Available in discrete, integrated, and magnetic solutions



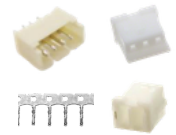
2 Heat Sinks

- Extruded and stamped types
- Suitable For TO-220, TO-247, and SOT-32 packaged components
- Material: aluminum
- Surface finish: black anodized



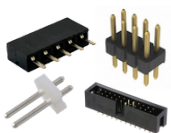
3 Disconnecting Wire to Board

- Pitch sizes: 2.54 – 3.96mm
- Secure latching system resists vibration
- Wire housings, headers, and crimp terminals



4 Miniature Disconnecting Wire to Board

- Pitch sizes: 0.8 - 2.5mm
- Matched crimp housings and PCB shrouded headers
- Straight / right-angle / SMT options



5 Headers

- Pitch sizes: 0.8 - 5.08mm
- Single, dual, or triple row
- Positions: 1 to 100 solder termination
- Surface mount or through-hole mounting



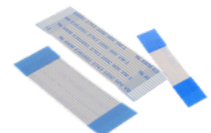
6 IDC Wire to Board

- Pitch sizes: 1.27, 2.54, 3.96mm
- 18–28 AWG wires
- Long/short body, closed end or feed-through



7 Flexible Printed Circuit

- Pitch sizes: 0.3, 0.5, 0.8, 1.00, 1.25mm
- Zero-wiping contact for reliability
- Available in single and dual-row configurations
- Through-hole and SMT options in vertical or horizontal orientations



8 Flat Flex (FFC) Cables

- Pitch sizes: 0.50mm to 2.00mm
- Custom lengths, contact counts, and contact layouts
- Same-side, opposite-side, or mixed contact configurations
- Fully customizable to meet application requirements