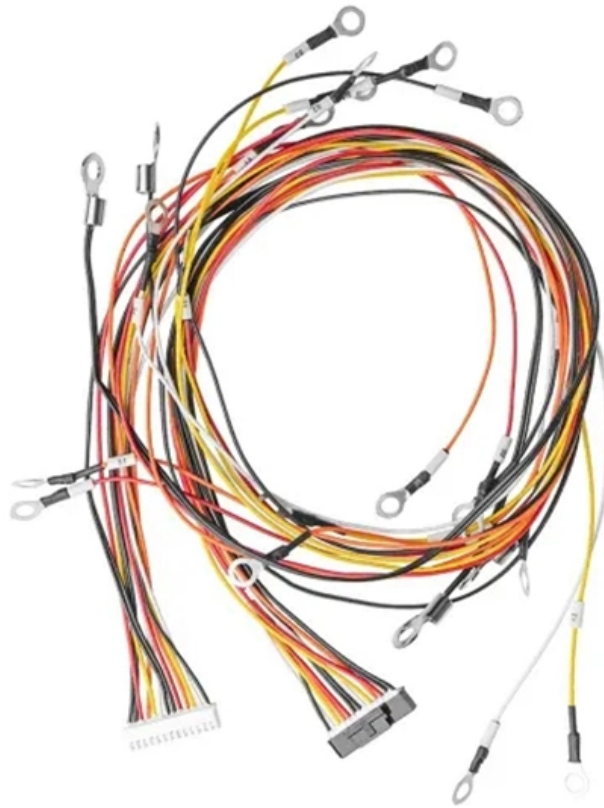


SMT Equipment Optical Module





Overview

This article explores the core SMT assembly technologies for data-center optical-module PCBs in the CPO era, highlighting key challenges and practical solutions in electro-optical co-design, thermal-power management, and precision manufacturing. As an OEM (Original Equipment Manufacturer) supplier, ZEISS Semiconductor Manufacturing Technology (SMT) enables the semiconductor industry worldwide with optics and other optical modules. Thanks to ZEISS lithography optics (no sales in Germany) chip fabs around the globe can expose their wafers. THT AOI, SMT AOI & SPI systems for every step of your manufacturing processes. Mek is a leading supplier of Automatic Optical Inspection equipment for advanced PCB inspection, test and measurement. Our broad range comprises 3D AOI systems, Through Hole or THT AOI, Modular AOI, Double Sided AOI and. The PCB baseboard that carries the electro-optical conversion core sits at the center, and its SMT assembly process combines cross-disciplinary problems in high-speed circuits, precision optics, and complex thermal management. It delivers high-speed, high-accuracy inspection of PCBs, identifying soldering defects, component misalignment, polarity errors, lifted leads, and other major.



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