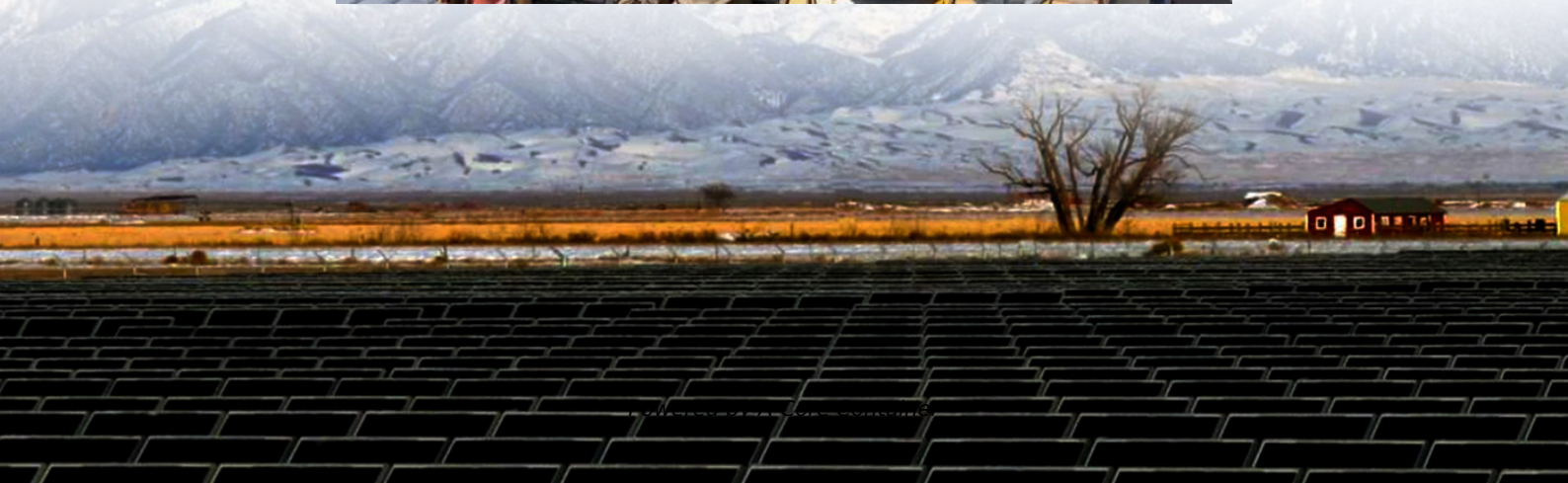


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Overview

What is Electronic Manufacturing Services (EMS)?

Electronic manufacturing services (EMS) provide a valuable service to OEMs by handles printed circuit board assembly, product testing, fulfillment and other production needs on an outsourced basis. This article explores the top 18 global EMS providers in 2023 based on factors like capabilities, capacity, expertise and geographic reach.

What is electronics contract manufacturing (EMS)?

EMS or electronics contract manufacturing refers to outsourcing production of electronics products to third-party specialists. It typically includes services like: Key benefits of using EMS partners include: EMS providers cater to markets like automotive, industrial, medical, aerospace, telecom and consumer electronics.

Why do defense and aerospace industries need EMS services?

The defense and aerospace industries rely on cutting-edge electronics manufacturing services to develop rugged, high-performance technology for mission-critical applications. As threats evolve, EMS providers continue to innovate in areas such as thermal management, obsolescence mitigation, and secure embedded systems.

What EMS services do EMS providers offer?

EMS providers manufacture electronic components using advanced assembly techniques that meet military-grade standards for durability and reliability. Key services include: PCB assembly (PCBA) – Using surface-mount technology (SMT) and through-hole assembly (THA) to ensure high-quality, efficient board production.

How can EMS help you develop high-reliability PCBs for military and aerospace applications?

The development of high-reliability PCBs for military and aerospace applications requires careful planning and testing. EMS providers specialize in: PCB design and fabrication – Creating custom printed circuit boards optimized for high-frequency signals, durability, and harsh conditions.

What can EMS do for You?

EMS providers supply custom electronic enclosures, ruggedized processors, and embedded control systems for autonomous robotics, tactical drones, and mobile command centers. These technologies play a critical role in surveillance, explosive ordnance disposal (EOD), and reconnaissance.

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