



Protecting Mission-Critical Equipment Against EMP, EMI and More

Power, Filtering and Power Quality Solutions for the Military



Engineered to Rigorous Military Standards

A complete systems approach to protecting communications networks and equipment against surges of all types.

With Transtector, you gain all of these advantages, plus an experienced team focused strictly on the military—all to ensure you have the most effective, dynamic and reliable surge protection available. Decades of experience, patented technology, and expertise in threat assessment, mitigation and custom solutions.

EMP/EMI Surge Protection

The integrity of the national defense system requires heightened attention to the importance of shielding against surge events. As risk factors increase around the globe, protection against EMP/EMI becomes a more crucial capability.

Decades of innovation make Transtector an industry leader in surge protection, with a comprehensive range of hardened solutions optimized for EMP/EMI threats in mission-critical military applications.

E3 Mitigation Expertise

High-performance Transtector technologies protect communication, satellite and electrical power systems from all major power quality threats. Our unique expertise in filter technologies enables us to provide a comprehensive portfolio of electromagnetic environmental effect (E3) hardening solutions, including custom designs to fit specific EMP/EMI protection requirements.

Engineering to Military Standards

When you choose Transtector, you're gaining more than off-the-shelf surge protection. We engineer solutions to key military standards and play an active role in determining global standards for surge protection, enclosures, and other network hardware and components. You gain protection specified for rugged performance and long-term reliability.

Key Product Solutions

Partnering with US departments and agencies including Defense, Homeland Security, and the FAA—as well as prime military contractors—helps Transtector develop solutions that protect mission-critical C4ISR (command, control, communications, computer, intelligence, surveillance and reconnaissance) tasks.

Product sets include AC, DC, RF and data line surge protection, power distribution units, power regulators, cabinets and more—hardened equipment optimized for EMP/EMI threats.

Experts in Project Management and Development of Custom EMP | EMI Solutions

Protection Against Critical Threats

- EMP (Electromagnetic pulse)
- HEMP (High-altitude electromagnetic pulse)
- SREMP (Surface-radiated electromagnetic pulse)
- NEMP (Nuclear electromagnetic pulse)
- SGEMP (system-generated electromagnetic pulse)
- Geomagnetic storms
- EMI (Electromagnetic interference)
- Tempest
- Internally generated transients
- Lightning strikes
- Solar storms
- Power grid anomalies

Mission-Critical Applications

- Battlefield electronics
- Vehicle electronics
- Fixed and mobile structures
- Power transmission lines and substations
- Main distribution panels and sub panels
- Protection of RF frequencies up to 14 GHz
- Military/civilian Aircraft
- Shipboard
- Communication systems
- GPS Topologies
- Ethernet, gigabit, data, T1/E1
- DC applications – 12 Vdc, 24 Vdc, 28 Vdc and 48 Vdc



Engineered to Key Military Standards

- MIL-STD 188-125-1 HEMP Hardening (fixed facilities)
- MIL-STD 188-125-2 HEMP Hardening (transportable systems)
- MIL-STD 202 Environmental Requirements (component level)
- MIL-STD 810 Environmental Requirements (box level)
- MIL-STD 461 EMI Requirements (subsystems)
- MIL-STD 464 EMI Requirements (systems)
- RTCA DO-160F Aircraft Protection
- UL1449 Safety Standards for Low Voltage Surge Protective Devices (steering committee)
- IEEE/ANSI C62.41 Product Application Location, Test Methods, Guide to Using Standard (Transtector on commission)
- IEC Standards International Electrical Committee (Transtector on Working Groups 5 and SC77c)

Key Product Groups

- EMP filters
- EMI filters
- Surge protection devices and filters
- UPS, power regulators, automatic transfer switches (ATS)
- Enclosures and custom cabinets
- AC, DC and data line surge protection
- Weatherproof and hardened solutions
- Ruggedized mobile power solutions



Need a Custom EMP | EMI Solution?

For over 30 years Transtector Systems has worked with Prime Contractors and Governmental agencies to engineer reliable EMP | EMI solutions.

Contact us at **+1 (208) 635-6400** to speak with our dedicated MilAero team or visit us at www.transtector.com