



Mission Critical Systems

Ensuring Land Mobile Network Reliability

Reliable Communication Key for Land Mobile Radio

Working with key OEMs and regulatory agencies for more than 40 years, PolyPhaser and Transtector Systems have developed an established reputation of providing dependable P25 and TETRA-compliant surge protection solutions for global LMR applications, enabling secure, reliable and interoperable networks when they are needed most.

Application	Network Component	Value
Dispatch	Dispatch Console	Dispatching and operations logging; reliability critical for interface and safety
Master Site, Backup Site	Base Station Rack and Combiner	Data storage and backup for reliable communications
Remote Site	Network MUX, Switches, Modems	Extends range of the network
Master Site	Server Rack, Switches	Operations reliability
Master Site	Equipment Room	Panel entrance location
Master Site/ Remote Site	Tower	Communication for master, backup and remote site operations (PTP radios, TTA, GPS*)
Remote Operations	Dispatch and Secondary Operations	Extends range of the network

**Note- PolyPhaser RF SPD applications are dependent on: frequency, connector type, DC pass or DC block configuration, or when sensitivity to PIM is high.*

AC Surge Protection



OP8



APEX IMAX



SL-120



RMP 615A



DRDC



3DC48-20



I2R SA48-40



DCOD

DC Surge Protection

Premier Surge Protection Vendor for Land Mobile Radio

- Surge protection products designed to meet R56 standards.
- Preferred Motorola Solutions vendor – ranked as a top ten supplier for the past five years.
- Global expertise in providing power quality site audits.
- Motorola-certified auditor as part of the Customer Service team within Transtector.
- Technical service well versed in LMR compliance issues and standards.
- Tailored Product Expedite (TPE) Program – Designed to provide application-specific surge protection solutions, through modification or enhancement of a current product.
- Low PIM rated RF products certified to Motorola and Verizon standards, N and DIN connector products available.

Superior Protection. Patented Technology. Guaranteed Performance.

Surge Protection Required	Recommended Surge Protection
AC, DC, Data, RF	TSJ, AC Edge, RMP 615A, OP8, DRDC
AC, DC, RF	AC Edge, OP8, TSX, TUSX, VHF50, ISB50, CPX, DC Edge III
Data -- Ethernet (T1/E1), AC	CPX, TSJ, RMP 615A
Redundant power supplies AC or DC	TSJ, CPX, AC Edge, OP8, Site Audits
AC, DC, Data	APEX IMAX, ISP Panel, TSJ, FSP, I2R, DCOD
AC, Data & RF (coaxial entry), Ethernet POE	Frequency and connector dependant, Site Audits
AC, Data, RF*	TSJ, CPX, SL-120, OP8, AC Edge, DC Edge III, RMP 615A, PEEP, Site Audits

RF Surge Protection

Data Line Surge Protection

Power Distribution



TUSX



ISB50



PEEP



TSX



TSJ



FSP



CPX



AC Edge



DC Edge III

Committed to Service

Meeting our customers' requirements is paramount to our effort in creating highly satisfied customers. We are the only surge protection supplier that offers a full line of professional services, including:

- **Technical Support**—Our global engineering service teams are available to answer application questions, troubleshoot, or assist in the design and development of a custom solution.
- **Customer Service**—Dedicated inside sales and customer service teams are trained in the unique surge protection requirements for LMR applications. These seasoned teams provide a full range of support from helping to select the right product to providing order status and RMA assistance.
- **Consulting and Site Audits**—We bring more than 30 years of expertise and professional experience in power and grounding consulting, site audits and educational courses to our worldwide Land Mobile Radio customers.
- **Custom Engineered Solutions**—Experts in transient technology and standards required for custom Motorola R56, P25 and TETRA-compliant surge protection solutions.



About Smiths Power

Smiths Power is a leading supplier of power distribution, conditioning, protection and monitoring solutions for data centers, wireless communications and other critical or high-value electrical systems.

As a family of brands, PDI, ONYX, PolyPhaser, Transtector, LEA, and RO Associates unite under one umbrella to Transform, Distribute, Monitor and Protect™ power in global networks and systems. Our companies provide expertise in consulting, design and manufacturing of power transformers and distribution systems, static switching, power monitoring, RF, AC, DC, data signal and EMP protectors as well as power quality engineering services.

Alongside Smiths Connectors and Smiths Microwave, Smiths Power is part of the Smiths Interconnect division of Smiths Group (www.smiths.com), a global leader in applying advanced technologies for markets in threat and contraband detection, energy, medical devices, communications and engineered components. Smiths Group employs approximately 23,000 people in more than 50 countries.