



Mission Critical Systems

Surge Protection for Small Cell Networks

Reliable Protection – Guaranteed

Small cell network protection requirements are vast, based on the wide range of air interfaces including GSM, CDMA, LTE, WiMax, 3G and 4G. As industry leaders in RF, AC, DC and data line surge protection, our sales and engineering teams are well versed in the specific challenges, requirements and specifications for this market.

| Application | Network Component | Value |
|--|--|---|
| Enterprise Campuses Airports Stadiums | Power supply, access controller/gateway, 3G & 4G radios | Extends wireless access coverage; private or multi-carrier networks |
| Urban/Metro Building Density Residential | Power supply, access controller/gateway, 3G & 4G radios, microwave link option | Extends carrier wireless access coverage within congested urban areas |
| Rural/Micro Remote Locations Residential | Power supply, access controller/gateway, 3G & 4G radios, microwave link option | Extends carrier wireless access coverage |
| WiFi-802.11 Coffee Shops Hotels Commercial | 2.4Ghz and 5.8Ghz radios | Provides data access from 50-200 feet, Indoor/Outdoor |
| WiMAX Outdoor Subscriber Based Rural | 2.3Ghz to 3.8Ghz radios | Provides data access 5-30 miles, Outdoor |

AC



RMP Series



I2R ICP Series



I2R IEP Series



MCP

DC



DRDC



I2R ICP-24/48



DC Defender



IX-DC Series

Premier Surge Protection Vendor for Mobile Network Operators

Small cells require a unique protection solution due to in-building and outdoor wireless service. Mobile operators trust and depend upon the reliable surge protection solutions PolyPhaser and Transtector Systems provide for LTE networks.

- Superior protection products engineered to protect small cell locations including residential, enterprise, urban and rural.
- Engineering teams integrate global electrical standards and the appropriate suppression technology into both custom and commercial off-the-shelf product designs.
- Preferred vendor status – ranked as a top supplier for on-time delivery and customer responsiveness.
- Technical service – well versed in small cell spectrum, backhaul interface, wireless coverage and power requirements.
- Dedicated regional staff to assist in beta test evaluations, site surveys and logistics management.

Superior Protection. Patented Technology. Guaranteed Performance.

| Surge Protection Required | Recommended Surge Protection |
|---|--|
| AC, DC, Data & RF (coaxial entry), Ethernet POE, PTP radios, GPS | TSJ, DPR, ALPU Series, RMP 615, AL-LSXM |
| AC, DC Data & RF (coaxial entry), Ethernet POE, PTP radios, GPS, Microwave Link | TSJ, I2R-ICP (AC/DC), TB Series, CPX, IX Series, ALPU Series, TSX Series, GX Series |
| AC, DC Data & RF (coaxial entry), Ethernet PoE, PTP radios, GPS, Microwave Link | TSJ, I2R-ICP (AC/DC), TB Series, CPX, IX Series, ALPU Series, TSX- Series, GX Series |
| AC, Data & RF (coaxial entry), Ethernet PoE, PTP radios | AL-LSXM , ALPU Series, SL-120 |
| AC, Data & RF (coaxial entry), Ethernet PoE, PTP radios | AL-LSXM, APLU Series, TB Series |

Data

RF



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:

- **Consulting and Site Audits:** More than 30 years of expertise and professional experience in power and grounding consulting, site audits and educational courses for mobile network operators responsible for small cell deployment.
- **Custom-Engineered Solutions:** Experts in transient technology and standards required for UL, CE and RoHS.
- **Tailored Product Expedite (TPE) Program:** Designed to provide application-specific surge protection solutions through modification or enhancement of a current product.
- **Technical Support:** Global engineering service teams 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 trained in the unique surge protection requirements found within femtocells, picocells and microcells.



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.