



SIGNAL AND SURGE PROTECTION SOLUTIONS

Shipped Same-Day

POWER AND SIGNAL INTEGRITY SOLUTIONS

PolyPhaser and Transtector provide high-quality RF, AC, DC, EMP, and data signal surge protection solutions and enclosures for mission-critical networks worldwide. Whether you require custom or standard products, our goal is to continually exceed your expectations with reliable components, dedicated customer service, and focused technical support.



THE LIGHTNING AND SURGE PROTECTION AUTHORITY



- Industry leader in reliable RF surge protection, filtering and grounding
- Decades of experience and solutions deployed worldwide
- Patented DC block, DC pass, and ultra-low PIM RF filter technologies



- More than 50 years of surge protection experience
- Market driver in silicon diode, MOV and hybrid surge technologies
- AC, DC, data signal, and EMP surge protection devices and enclosures





MEETING THE REQUIREMENTS OF TODAY'S NETWORKS

Whether you need same-day shipping for an urgent project, detailed product information on demand, or simply the customer and technical support you expect from a valued partner, PolyPhaser and Transtector are poised to help.



Comprehensive range of products, systems and solutions



Products in stock, and available for same-day shipping




Online purchasing and direct purchasing options



Dedicated customer service and technical support

DATA SIGNAL SURGE PROTECTION

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|--|--|---|
|  | ALPU PoE Series Compact RJ-45 surge protector for point-to-point and point-to-multi-point | <ul style="list-style-type: none"> SASD technology Easy installation/RJ-45 connectors Compact design and 1/4-20 ground stud Plastic and aluminum indoor/outdoor enclosures | <ul style="list-style-type: none"> Up to GbE and PoE++ protocols Standards: GR 1089, NEC 800.100 and 830c100, IEEE 802.3af, CE, RoHS compliant, hazardous location certified |
|  | ALPU Fit & Lite Reliable surge protection for small cell networks, 3G, 4G applications | <ul style="list-style-type: none"> Gas tube as well as hybrid SASD technology Ease of installation (corrosion, UV, and salt fog protection – [ALPU Fit]) Rugged environmental design | <ul style="list-style-type: none"> GbE, PoE + and GbE, PoE ++ protocols Pole/wall mount Standards: UL 497B, IEC60950, CE and RoHS compliant, IP 65 (Fit), IP 23 (Lite) |
|  | Thunderbolt Series Bulkhead protection for Ethernet/PoE lines | <ul style="list-style-type: none"> High power gas discharge tube (GDT) and TVSS protection in single protector In-line installation Optimized for signal throughput Bulkhead mount | <ul style="list-style-type: none"> 10/100 I PoE, GbE and GbE I PoE configurations available Standards: IP67, CE, RoHS |
|  | DPR Series Surge protection for GbE, PoE, Ethernet rack, wall or DIN rail mount | <ul style="list-style-type: none"> Line and load bidirectional protection Unprotected pins bonded to ground Individual modules in plastic housing with DIN rail snap on feature for mounting and grounding | <ul style="list-style-type: none"> Up to GbE and PoE++ protocols 1RU chassis holds up to 16 modules and is adjustable to fit 19" or 23" racks Standards: GR-1089, NEC 800.100 and 830.100, IEEE 802.3af, ITU703 |
|  | CPX Rack-mount multi protocol protection | <ul style="list-style-type: none"> Carrier-grade surge protection Line and load bidirectional protection Ease of installation for individual protection modules Wall or DIN rail mount | <ul style="list-style-type: none"> T1E1, 10/100 Ethernet, 10/1000 GbE Ethernet, 10/ 100 PoE, and 48 Vdc power configurations 4 port or 16 port chassis Standards: GR-1089 CORE, UL 497A, UL497B, IEEE802.3 ITU703, hazardous location certified models |
|  | TSJ-USB Series Indoor SPD using SASD technology for PC, WiFi, and Security applications | <ul style="list-style-type: none"> Bulkhead USB 1.0, USB 2.0 data protocols Superior silicon avalanche diode technology Data rate 480 MBs 72 inch pigtail | <ul style="list-style-type: none"> USB A plug contacts RoHS compliant |
|  | MDPS Series Reliable surge protection for NEMA 4X-rated outdoor enclosure applications | <ul style="list-style-type: none"> DPR modules offer surge protection up to GbE and PoE++ protocols Ease of installation for DIN Rail modules Wall pole mount capabilities Modular enclosure support, up to eight (8) DPR modules (two DPR modules provided with unit) | <ul style="list-style-type: none"> Standards: NEC 800.100, 830.100, NEMA 4X enclosure |

COAXIAL RF SURGE PROTECTION

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|--|--|---|
|  | TSX Series Ultra low PIM RF coaxial protection | <ul style="list-style-type: none"> Ultra low PIM RF coaxial protection in DC short and DC pass PolyPhaser's patented SX lightning filter technology Frequency range: 698 MHz to 2.7 GHz | <ul style="list-style-type: none"> 4.3-10, N-Type or 7/16" DIN connectors IEC 61000-4-5, CE and RoHS compliant |
|  | IS-B50 Series DC block protector for two way radio and SCADA applications | <ul style="list-style-type: none"> DC block gas tube design Optimized for low insertion loss, low return loss Frequency range between 1.5 MHz-1 GHz | <ul style="list-style-type: none"> IEC 61000-4-5, CE and RoHS compliant |
|  | GXZ Series DC pass for tower-top amplifiers, GPS antennas, active antennas and base station entry panels | <ul style="list-style-type: none"> PolyPhaser's patented hybrid, multi-stage lightning protection DC Pass surge protector is available in 4 RF bands from DC to 2500 MHz | <ul style="list-style-type: none"> IEC 61000-4-5, CE and RoHS compliant |
|  | Rail Filters (RRF) Band pass filter protection for railway applications | <ul style="list-style-type: none"> Superior in-band RF performance Integrated surge protection Allow interoperability with 219.5 MHz and 220 MHz PTC signals | <ul style="list-style-type: none"> 160, 220, and 450 MHz rail configurations available for way-side and locomotive applications AAR, Section K Part V, Standard S-9401, CE and RoHS compliant |
|  | GT Series Gas tube lightning protection with superior RF performance | <ul style="list-style-type: none"> DC pass gas tube protection High surge current capability, low let-through voltage Frequency range between DC to 6 GHz | <ul style="list-style-type: none"> IEC 61000-4-5, CE and RoHS compliant N and SMA connector options |
|  | VHF Series High-powered public safety, TETRA and UHF, VHF radio application protection | <ul style="list-style-type: none"> High surge current capability, low let-through voltage DC block filter design, no DC continuity between center pins TETRA, UHF, and VHF radio application frequency range | <ul style="list-style-type: none"> PIM performance available in select units IEC 61000-4-5, CE and RoHS compliant |
|  | SX Series Radio frequency DC blocked filter protector | <ul style="list-style-type: none"> High surge current capability, low let-through voltage DC block filter design, no DC continuity between center pins Elongated female connector allows for mounting through a 1/4" bulkhead or grounding bar Frequency range 300 MHz to 10 GHz | <ul style="list-style-type: none"> PIM performance available in select units IEC 61000-4-5, CE and RoHS compliant |

AC SURGE PROTECTION



| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|---|---|---|
|  | AC Edge Series Rack mounted 120 Vac and 240 Vac distribution panel with dual inputs | <ul style="list-style-type: none"> Allows customers standardization of AC power installation and start up Wire from commercial power or UPS breakers Integrated surge protection (5 kA SASD per input) Remote alarm circuits: power and breaker | <ul style="list-style-type: none"> Space saving 2 RU Circuit breaker options: 1, 2, 3, 4, 5, 10, 15 amp Standards: UL 60950 listed, EN 60950 listed |
|  | IMAX Series Mission-critical AC panel mounted surge protection | <ul style="list-style-type: none"> Hybrid silicon diode/thermally protected MOV design Line and load bidirectional protection Field-replaceable suppression modules Visual and remote status monitoring Motorola R-56 approved | <ul style="list-style-type: none"> 120/240 split phase silicon/MOV, 120/208 3-phase wye silicon MOV, 120/240 split phase MOV, 120/208 3 phase wye MOV configurations Standards: UL 1449 4th Edition, ANSI/IEEE C62.45, IEEE C62.412002 C High |
|  | PV Series Modular robust surge protection for critical equipment | <ul style="list-style-type: none"> Thermally protected MOV technology Audible alarm and disable switch Visual and remote status indication (dry relay contacts) per phase EMI/RFI noise filtering | <ul style="list-style-type: none"> Available with or without disconnect All mode protection-L-N, L-G, N-G and L-L Standards: UL 1449 4th Edition, NEC, IEEE |
|  | SP Series Protection for Type 1 and Type 2 applications | <ul style="list-style-type: none"> MOV technology LED Status indication Quick installation for indoor/outdoor use Compact design and rugged construction | <ul style="list-style-type: none"> 120 Vac to 600 Vac configurations Indoor outdoor options Standards: UL 1449 4th Edition, UL 964, ANSI/IEEE, Type 1 US and Type 2 Canada listed, NEMA 4X, RoHS, NEC 100/285 |
|  | I2R IEP Series Replaceable DIN rail mounted surge protection | <ul style="list-style-type: none"> SASD technology Line and load bidirectional protection Field-replaceable suppression module Visual and remote status indication | <ul style="list-style-type: none"> 120 Vac configuration available Standards: UL 1449 4th Edition, IEEE C62 41, RoHS compliant, hazardous location certified |
|  | I2R T125 Series Modular 230 Vac single phase & 3-phase Wye | <ul style="list-style-type: none"> Replaceable suppression modules DIN Rail mount High capacity MOV protection | <ul style="list-style-type: none"> IEC61643-11 Class I + II CE, RoHS compliant |
|  | I2R 75K Series Modular single phase, split-phase, three- phase WYE, delta and high-leg delta | <ul style="list-style-type: none"> Safe-fail, self-protected Surge capacity 75 kA Additional back up fusing not required Remote status indication | <ul style="list-style-type: none"> UL 1449 4th Edition ANSI/IEEE C62.41.1, C62.41.2, C62.45 CE, RoHS compliant MIL-STD-810E |

DC SURGE PROTECTION


| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|--|---|--|
|  | DC Edge Series Power distribution for scalable and reconfigurable edge network applications | <ul style="list-style-type: none"> High current capability Universal voltage Front panel alarm status LED and discrete dry relay contacts Front load TFD housing or circuit breaker Compact 1 RU PDU | <ul style="list-style-type: none"> 19" or 23" rack mount Standards: UL 60950, NEBS and RoHS compliant |
|  | DRDC Series Superior surge protection for DC and low frequency data lines | <ul style="list-style-type: none"> SASD technology DIN rail mount with replaceable suppression module, no rewiring required Screw terminals accept 28-12AWG | <ul style="list-style-type: none"> 7, 12, 24, 48, 70 Vdc configurations available Hazardous location certified, FM approval Class 1 Division II, CE, ATEX EU Directive 94/9/EC, UL 497B (except DRDC-70) |
|  | I2R ICP Series Silicon surge protection for DIN rail mount applications | <ul style="list-style-type: none"> SASD technology Parallel installation Replaceable suppression module, no rewiring required Visual and remote (dry contact relay) status indication | <ul style="list-style-type: none"> 12, 24, 48 Vdc configurations Standards: IEEE C62 41, UL 49AB |
|  | DRI Series Two pair/four wire protection approved for hazardous locations | <ul style="list-style-type: none"> SASD technology Line and load bidirectional protection Plug-in, suppressor modules, DIN rail mount Visual and remote (dry contact relay) status indication | <ul style="list-style-type: none"> 24, 120 Vdc configurations available FM approval Class 1 Division II, ATEX EU Directive 94/9/EC |
|  | I2R IEP DC Series Silicon surge protection for DIN rail mount applications | <ul style="list-style-type: none"> SASD technology Replaceable suppression module Visual and remote (dry contact relay) status indication | <ul style="list-style-type: none"> 12, 24, 48 Vdc configurations available Standards: IEC 61643-1, RoHS compliant |
|  | DCOD Series Silicon surge protection for indoor/outdoor tower-top antennae applications | <ul style="list-style-type: none"> SASD technology Series 25-amp two-port protection Surge and protected wiring terminals Remote status monitor relay contacts | <ul style="list-style-type: none"> 24, 48 Vdc configurations 2.5kA and 5kA 8/20μs surge withstand configurations available Standards: IEC 61643-11 compliant, CE 6095, NEMA 3R |
|  | DC Defender 48 Vdc silicon surge protection for indoor/outdoor tower-top antennae applications | <ul style="list-style-type: none"> Series fused, SASD surge protection NEMA 3R enclosure 3 mode DC power protection 10 AWG wire for 15-amp circuits | <ul style="list-style-type: none"> Panel and pole mount configurations Standards: CE 60950, NEMA 3R, RoHS compliant |

HEMP TESTED SURGE PROTECTION (HIGH-ALTITUDE ELECTROMAGNETIC PULSE)


AC EMP Surge Protection

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|--|--|---|
|  | APEX IMAX HT Series Engineered for 120/208, 120/240 and 120 Vac applications | <ul style="list-style-type: none"> Outdoor EMI shielded enclosure Form C remote alarm contacts Low VPL at high induced surge current | <ul style="list-style-type: none"> UL 1449 4th Edition MIL-STD-188-125 tested Enclosure UL 50 Type 4 Silicon and Hybrid options EMP protection level 1, 2, 3 |
|  | E3PA Series Tested to extreme SREMP environment | <ul style="list-style-type: none"> Military grade Fail-safe fusing Cabinet options with continuous protection to downstream equipment | <ul style="list-style-type: none"> MIL-STD-188-125 tested Silicon and Hybrid options EMP protection level 1, 2, 3 |



DC EMP Surge Protection

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|--|--|--|---|
|  | DCPM HT Series Rugged protector available for 12, 24, 28 and 48 Vdc applications | <ul style="list-style-type: none"> Continuous protection to downstream equipment Military grade options Field serviceable | <ul style="list-style-type: none"> Silicon and Fail-Short MOV technology options MIL-STD-188-125 tested EMP protection level 1, 2, 3 |

Network Signal EMP Surge Protection

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|---|---|--|
|  | ALPU HT and E3PM HT Series Rugged, compact and lightweight data line-EMP surge protection | <ul style="list-style-type: none"> Continuous protection to downstream equipment Field serviceable Rugged construction | <ul style="list-style-type: none"> Military grade options MIL-STD-188-125 tested Silicon technology EMP protection level 1, 2, 3 |

RF EMP Surge Protection

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|---|---|--|--|
|  | TSX HT Series Outdoor RF protector for 698 MHz to 2.7 GHz | <ul style="list-style-type: none"> Bulkhead mount Line/load bidirectional Low let-through energy High pass filter | <ul style="list-style-type: none"> RoHS, CE, IEC 60950-1AS MIL-STD-188-125 tested EMP protection level 1, 2, 3, 4 |
|  | E3PM HT Series DC pass broadband protector | <ul style="list-style-type: none"> Flange or bulkhead mount Low throughput energy N-type connectors DFARS hardware kit | <ul style="list-style-type: none"> RoHS, Buy American Act MIL-STD-188-125 tested EMP protection level 1, 2, 3, 4 |



POWER PROTECTION CABINETS

Custom Solutions

Transtector Systems engineers and manufactures fully integrated power protection cabinets for quick site setup, low lead times and termination of both electrical and communication utility feeds. Configurable options include AC, DC and data line surge protection for indoor and outdoor communication sites with multiple power sources. Global carriers rely on Transtector for custom quality solutions that meet unique environment and network requirements.





Small Cell

Transtector Systems engineers a full line of reliable, safe and configurable compact cabinet solutions engineered specifically for Small Cell deployments. These cabinets integrate dependable surge suppression, are compact to reduce public visibility, provide several current configurations, and are UL listed to meet industry safety standards.

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS | OPTIONS/STANDARDS |
|--|--------------------------------------|---|---|
|  | AC Power Distribution Cabinet | <ul style="list-style-type: none"> • 120V or 120/240SP • 12 field configurable branch breaker positions • Service entrance rated • Co-location approved | <ul style="list-style-type: none"> • UL 67 Listed • 50A, 60A, 100A or 125A configurations • I2R-75K MOV surge protection • NEMA 3R • Field configurable design supports unique market architecture |
|  | MiniCab Series | <ul style="list-style-type: none"> • 120/240 and 120 Vac options • Single phase • Outdoor • Wall or pole mounts • Compact footprint | <ul style="list-style-type: none"> • UL 67 Listed • I2R IEP and I2R SA 120-50M surge protection • 15 A, 20 A, 40 A options |

Industrial NEMA Enclosures and Accessories

Transtector series of weatherproof UL Listed, NEMA enclosures reliably protect equipment in harsh environments. These enclosures are available in a wide range of configurations, all engineered to house equipment that requires protection and security.

| PRODUCT | DESCRIPTION | FEATURES & BENEFITS |
|---|---------------------|---|
|  | TEF14 Series | <ul style="list-style-type: none"> • 45 enclosure options with 15 accessories • Standard 14"x12"x7" footprint • UV stabilized polyester reinforced fiberglass construction • 120 Vac, 240 Vac, and PoE options |
|  | TEF18 Series | <ul style="list-style-type: none"> • 42 enclosure configurations with 8 accessories • Standard 18"x16"x8" footprint • UV stabilized polyester reinforced fiberglass construction • 120 Vac, 240 Vac, PoE and 12 Vdc options |
|  | TEP14 Series | <ul style="list-style-type: none"> • 17 enclosures and 4 accessories to choose from • Available in 14"x10"x6" and 14"x10"x4" sizes • ABS Acrylonitrile Butadiene Styrene constructions • 120 Vac and PoE options |
|  | TEPC Series | <ul style="list-style-type: none"> • Over 100 configurations available • Polycarbonate construction in grey or black • Outdoor IP 24 rated |

RF Protection – TSX Series

Ultra-low PIM protectors for 698 MHz to 2.5 GHz, available in DC block and DC pass configuration



1

iPolyPhaser

RF Protection – GX

DC pass filter protectors ideal for RF applications where DC is required



2

iPolyPhaser

Grounding – 5PEEP-M

3 and 8 port earthed entrance panels



3

iPolyPhaser

AC Protection –

Modular, fail-safe protector with surge capacity of 75 kA

TRANSECTOR

TELECOMMUNICATION SOLUTIONS



Macro LTE 5G

1 2 3 5 7 11 13 14



Small Cell

1 4 5 8 10 12 14

Data Protection – ALPU Fit

Protects GbE, PoE+ and GbE PoE++ networks for indoor and outdoor applications



8

TRANSECTOR

Data Protection – DPR Series

Multiple data rates and PoE applicatoins – T1/ E1, GbE, PoE, PoE+ and PoE++



9

TRANSECTOR

Small Cell Cabinets – SC-2MMA9

UL configurable 60A to 125A co-location approved



10

TRANSECTOR

Industrial Cabin

Configurable NEMA indoor and outdoor



TRANSECTOR

I2R 75K



4

AC Protection – SP

Reliable MOV technology for a variety of voltages from 120 Vac to 600 Vac



5

DC Protection – I2R Series

Outdoor, non-degrading silicon protection for DC power supplies up to 25 A



6

EMP Protection – HEMP

Military grade AC, DC, Data and RF protectors to shield from EMP



7

Internet of Things (IoT) Enterprise

4 7 8 9 11 13

PolyPhaser
an INFINITI brand

TRANSTECTOR
an INFINITI brand

DAS

3 4 5 6 8 9 10 11

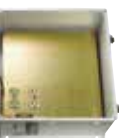
Venues

1 2 4 5 9 10 11 12 13

Contact our sales team at +1 (208) 635-6400 for additional information and specifications on RadioWaves and KP Performance Antennas

Enclosures – NEMA

enclosures for applications



11

KP Omni KPPA-3GHz – DPOMA

3 GHz 13 dBi dual polarized H/V Omni antenna



12

KP Sector KPP-3SX4-65

Proline Sector Antenna engineered to delivery high stable gain over wide bandwidths



13

RWI – HPLP2-80

High performance parabolic reflector antennas engineered to ETSI class 2/3



14

UTILITY NETWORK SOLUTIONS

Alternative Energy

- 2
- 3
- 8

SCADA System

- 1
- 2
- 3
- 6

Substation

- 3
- 7
- 9

Last Mile Broadband Network

- 1
- 2
- 3
- 5
- 6
- 8
- 9

GROUNDING AND PROTECTION PROBLEMS?

Contact us at +1 (208) 635-6400 or email protection@transtector.com to schedule a site audit or discuss private training courses.

Power Plant

4 7 8

Data Center

4 7 8



AMI-Smart Metering

1

1

RF Protection – DGXZ Series

DC Pass arrestor engineered for 800 MHz to 2500 MHz



2

DC Protection – DC Defender

Superior SASD surge technology for 48 Vdc outdoor applications



3

DC Protection – I2R IEP Series

Modular DIN Rail 24 & 48 Vdc single mode SASD protection



4

Data Line – CPX Series

Modular, Ethernet and GbE surge protector scalable to 16 ports



5

Data Line – ALPU Series

Protects GbE, PoE+ and GbE, PoE++ networks, for indoor and outdoor applications



6

Data Line – DPR Series

Multi-protocol equipment protector offers GT, SASD and hybrid technology



7

EMP-HEMP Tested – APEX IMAX HT Series

AC EMP surge protection options for 120/208 120/240 and 120 Vac applications



8

AC Protection – SP Plus

Reliable MOV technology supporting voltages from 120 Vac to 600 Vac



9

NEMA Enclosures

Configurable indoor and outdoor NEMA enclosures and accessories



AC Protection – SP Series

Reliable MOV technology for a variety of voltages from 120 Vac to 600 Vac



TRANSECTOR

1

RF Protection – GX Series

DC Pass filter protectors ideal for RF applications where DC is required



iPolyPhaser

2

DC Protection – SXRR

High performance, dual stack, silicon, primary railroad protection with status indication



iPolyPhaser

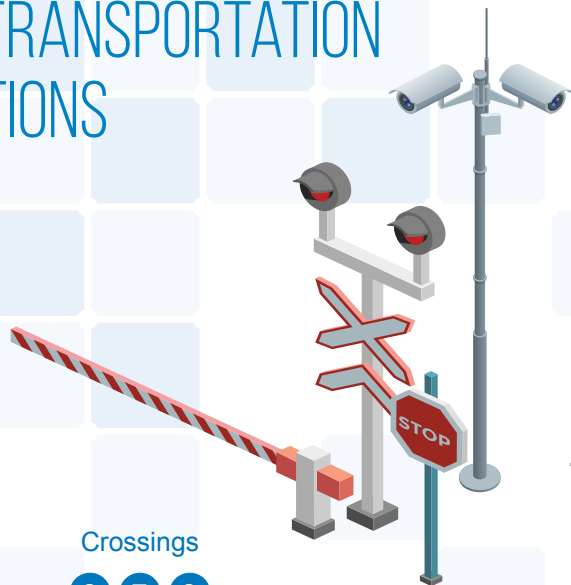
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DC Protection –

Modular, silicon, DC data signal protector with LED indicator

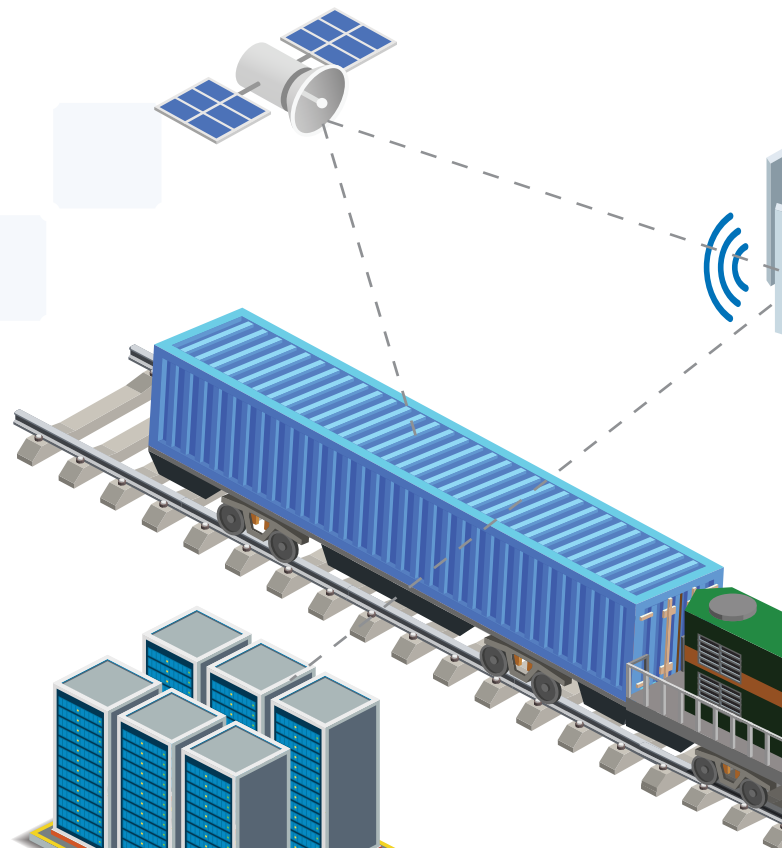
TRANSECTOR

RAIL TRANSPORTATION SOLUTIONS



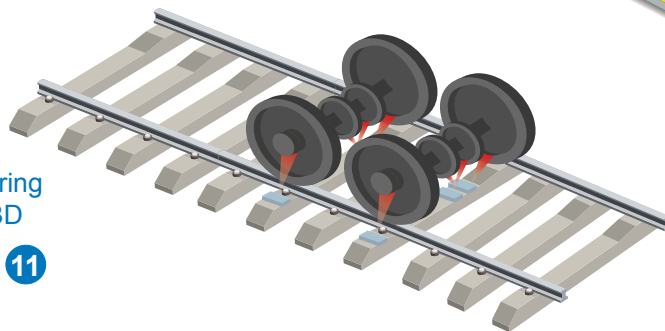
Crossings

3 7 9



Asset Monitoring
AEI and HBD

1 4 8 11



RF Protection – TSX-NFF

DC block, ultra-low PIM, bidirectional protector



iPolyPhaser

8

Data Line – ALPU

Protects GbE, PoE+ and GbE, PoE++ networks, for indoor and outdoor applications



TRANSECTOR

9

Backhaul Antenna

Parabolic antennas provide a variety of performance solutions including SP, HP and SHP



radiowaves

10

Single Pole Antenna

Frequency range 902 - 928 MHz
Dimensions 27.5" 7" x 3.5"
Gain 11.5 dBi

KP PERFORMANCE ANTENNAS

DRI24



4

RF Filter – RRF Filter

Band pass filter designed for wayside rail applications and Positive Train Control systems



iPolyPhaser

5

Rail Filters (RRF)

Cavity filters for PTC applications



iPolyPhaser

6

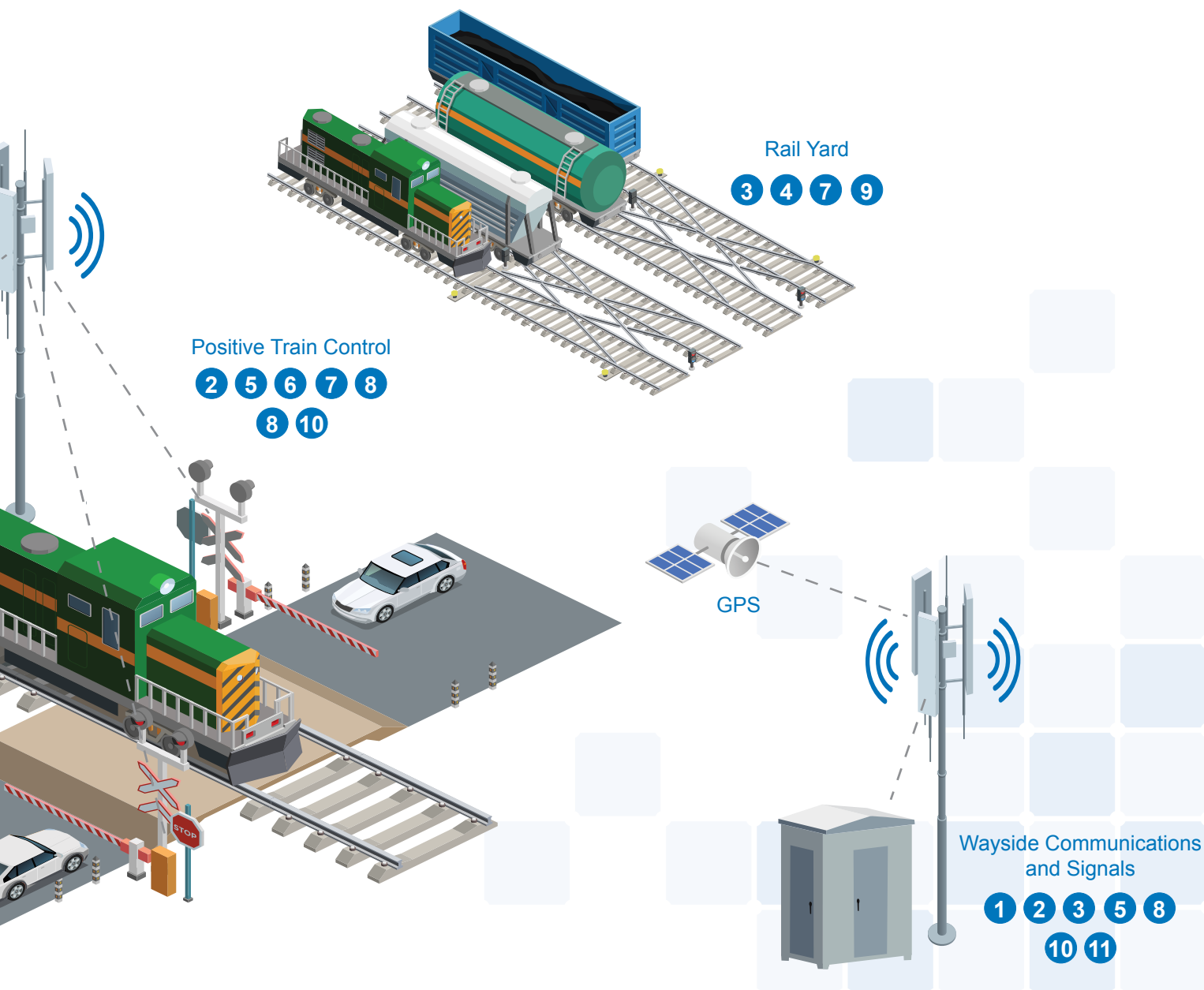
Data Line – DPR Series

Multi-protocol equipment protector offers GT, SASD and hybrid technology



TRANSECTOR

7



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x

Contact our sales team at +1 (208) 635-6400 for additional information and specifications on RadioWaves and KP Performance Antennas



11

iPolyPhaser
an INFINIT® brand

TRANSECTOR
an INFINIT® brand



About Infinite Electronics

Infinite Electronics is a leading global supplier of electronic components serving the urgent needs of engineers through a family of highly recognized and trusted brands. Our portfolio of brands, including Pasternack, Fairview Microwave, L-com, MilesTek, KP Performance Antennas, PolyPhaser, Transtector, RadioWaves, Aiconics, Integra Optics, INC Installs, and ShowMe Cables, are technology specialists that provide broad inventories offering engineering-grade products, expert technical support, and same-day shipping.

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