



Signal and Surge Protection Solutions

Global Surge Protection Capabilities

PolyPhaser | Transtector offers advanced RF, AC, DC and high-speed data and signal protection engineered to meet key global standards including IEC, IEEE, UL and CE. Our products have proven themselves in numerous critical markets and applications such as telecommunications, first responders, military, rail, medical, and energy.

To support worldwide applications and project requirements, PolyPhaser | Transtector provides an extensive partner base with highly qualified technical sales and engineering teams. Regardless of your application, PolyPhaser | Transtector has the proven ability and experience to design, develop and manufacture customized solutions to meet your specific needs. From concept to final product, we value close partnerships with our customers to ensure that we meet and exceed performance, quality, time and budgetary expectations. Global access to specialized engineering teams, test labs and ISO manufacturing facilities further enables us to meet your unique international requirements.



PolyPhaser leads the market with its patented RF protection solutions, specifically supporting communications systems. Based on its extensive experience with multi-stage surge protection, PolyPhaser continuously expands its product offering to support the needs of advanced network applications with technologies such as DC Block, DC Pass and Ultra Low PIM.



Transtector Systems specializes in the protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Its power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

Protect Your Investment

Surge Protection Solutions

Power and Signal reliability play a role in every critical electrical and communication asset. If the application is key to revenue and growth, it must be protected from malfunctioning and downtime.

PolyPhaser | Transtector are established market leaders providing proprietary RF and high-reliability AC, DC and signal surge protection. Technical innovation and a solution driven mindset have guided our comprehensive portfolio of surge protection products.



Data Line Surge Protection

PRODUCT	FEATURES AND BENEFITS	OPTIONS/STANDARDS
 <p>ALPU POE Compact RJ-45 surge protector for point-to-point and point-to-multi-point</p>	<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"> • Various high speed protocol supported • Standards: GR 1089, NEC 800. 100 and 830c100, IEEE 802.3af, CE, RoHS compliant
 <p>ALPU Fit & Lite Reliable surge protection for small cell networks, 3G and 4G applications</p>	<ul style="list-style-type: none"> • Gas tube as well as hybrid SASD • Ease of Installation (simple hand tool required) • 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)
 <p>Thunderbolt Series Protection for power over gigabit Ethernet lines</p>	<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
 <p>DPR Series Surge protection for GbE, PoE, Ethernet rack, wall or DIN rail mount</p>	<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"> • Data and PoE Vdc configurations • 1RU chassis holds up to 16 modules and is adjustable to fit 19" or 23" racks • Wall or DIN rail mount • Standards: GR-1089, NEC 800.100 and 830.100, IEEE 802.3af, ITU703
 <p>CPX Series Protection for power over gigabit Ethernet lines</p>	<ul style="list-style-type: none"> • 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 gigabit 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
 <p>TSJ Series Compact data line surge protection for T1, gigabit PoE, GbE, PoE and Ethernet</p>	<ul style="list-style-type: none"> • High surge current silicon avalanche and gas tube surge capacity • Easy installation with ground stud and RJ-45 jacks 	<ul style="list-style-type: none"> • 5, 48 Vdc configurations • Standards: UL 497B listed, RoHS compliant
 <p>MDPS Series Provides reliable surge protection in an outdoor NEMA 4X rated enclosure applications</p>	<ul style="list-style-type: none"> • DPR modules offer GbE PoE surge protection • Ease of installation for DIN Rail modules • Wall or pole mount capabilities • Modular enclosure supports 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	FEATURES AND BENEFITS	OPTIONS/STANDARDS
 <p>TSX Series Ultra low PIM RF coaxial protection</p>	<ul style="list-style-type: none"> • Ultra low PIM RF coaxial protection in DC short and DC pass • High surge current capability, low let-through voltage • Frequency range: 698 MHz to 2.7 GHz 	<ul style="list-style-type: none"> • Both male or female surge/protected side connectors • Standards: IEC 61000-4-5
 <p>B50 Series DC blocked protector for two way radio and SCADA applications</p>	<ul style="list-style-type: none"> • DC blocked gas tube design • DC short filter design, no DC continuity between center pins • Optimized for low insertion loss, low let-through, high return loss • Frequency range between 1.5 MHz-1 GHz 	<ul style="list-style-type: none"> • Both male or female surge/protected side connectors • Standards: IEC 61000-4-5, RoHS compliant, CE compliant
 <p>GXZ Series DC pass for tower top amplifiers, GPS antennas, active antennas and base station entry panels</p>	<ul style="list-style-type: none"> • Hybrid, multistage protection • Separate RF (DC-Block) and DC paths through the protector • Optimized for low insertion loss, low let-through, high return loss • DC Pass surge protector is available in 4 RF bands in the frequency range of DC to 2500 MHz 	<ul style="list-style-type: none"> • Both male or female surge/protected side connectors • Standards: IEC 61000-4-5, IEC 60529 IP67, Bellcore # TA-NWT-00487, CE 60950, RoHS compliant
 <p>GT Series Gas tube lightning protection with superior RF performance</p>	<ul style="list-style-type: none"> • DC pass gas tube protection • High surge current capability, low let-through voltage • Frequency range between 3-7 GHz • High surge current capability, low let-through voltage 	<ul style="list-style-type: none"> • 30 volt configurations available in Bias-T, DC Pass or Twisted Pair • Both male or female surge/protected side connectors • Standards: RoHS compliant, CE 60950
 <p>HF Series High powered public safety, TETRA and UHF, VHR radio application protection</p>	<ul style="list-style-type: none"> • High surge current capability, low let-through voltage • DC short filter design, no DC continuity between center pins • VHR, TETRA and UHF, VHF radio application frequency range 	<ul style="list-style-type: none"> • Both male or female surge/protected side connectors • PIM performance available in select units • Standards: IEC 61000-4-5, RoHS compliant, CE compliant
 <p>SX Series Radio frequency DC blocked filter protector</p>	<ul style="list-style-type: none"> • High surge current capability, low let-through voltage • DC short filter design, no DC continuity between center pins • Elongated female connector allows for mounting through a 1/4" bulkhead or grounding bar • Frequency range between 300 MHz to 10 GHz 	<ul style="list-style-type: none"> • Both male or female surge/protected side connectors • PIM performance available in select units • Standards: IEC 61000-4-5, CE compliant
 <p>RRF Series Band pass filter designed for wayside rail applications"</p>	<ul style="list-style-type: none"> • Superior inband RF performance with integrated surge protection • Weatherized • Bidirection operations • Band pass filter 	<ul style="list-style-type: none"> • 160, 220, and 450 MHz rail application options • Both male or female surge/protected side connectors • Standards: IEC 60529 IP67, Bellcore #TA-NWT-000487

AC Surge Protection

PRODUCT	FEATURES AND BENEFITS	OPTIONS/STANDARDS
 <p>SuperHy Series Robust hybrid MOVsurge protection</p>	<ul style="list-style-type: none"> Hybrid silicon diode/thermally protected MOV design Parallel, bidirectional protection Visual and remote status indication DIN rail mounted 	<ul style="list-style-type: none"> 240/415 3-phase wye w/NPE or 240 Vac configurations Outdoor enclosure configurations Standards: IEEE Category C high, IEC Class I and Class II
 <p>IEC Series Surge protection for C-19, and IEC C-20 plug-in applications</p>	<ul style="list-style-type: none"> SASD technology Visual status monitoring Single outlet Panel mounting 	<ul style="list-style-type: none"> 240 Vac configurations available Standards: IEEE Category A
 <p>I2R ICP Series Silicon surge protection for DIN rail mount applications</p>	<ul style="list-style-type: none"> SASD technology Parallel installation Replaceable suppression modules, no rewiring required Visual and remote (dry contact relay) status indication DIN rail and panel mounting 	<ul style="list-style-type: none"> 120 and 240 Vac single phase configurations available Standards: UL 1449 3rd Edition
 <p>SP Series Protection for Type 1 and Type 2 applications</p>	<ul style="list-style-type: none"> MOV technology LED status indication Quick installation for indoor and outdoor use Compact design and rugged construction 	<ul style="list-style-type: none"> 120 Vac to 600 Vac configurations Indoor or outdoor options Standards: UL 1449 4rd Edition, UL 964, ANSINIEEE, Type 1 US and Type 2 Canada listed, NEMA 4, RoHS, NEC 100/285
 <p>MCP Series Protection for cabinet/ pedestal applications</p>	<ul style="list-style-type: none"> SASD technology with MOV backup Line and load bidirectional protection Visual and remote status indication Hardwired, compact suppression module 	<ul style="list-style-type: none"> 120/240 Vac split phase, 120/208 Vac 3-phase wye, 240 Vac single phase configurations available Standards: IEEE C62.41, IEC 61643-1, UL 1449 3rd Edition on selected models
 <p>AC Edge Series Rack mounted 240 Vac distribution panel with dual inputs and surge protection</p>	<ul style="list-style-type: none"> MCOV 250 Vac per phase technology Wire from commercial power or UPS breakers Integrated surge protection (SASD technology) Remote alarm circuits: power and breaker 	<ul style="list-style-type: none"> 19" or 23" rack in 2RU with adjustable ears Standards: IEC 60950-1:2005
 <p>I2R SA Series DIN rail surge protection for high exposed and sensitive electronic power systems</p>	<ul style="list-style-type: none"> Rugged MOV technology Electrically isolated Form-C dry contacts with a three pin removable terminal plug Visual status indicator DIN rail mounted 	<ul style="list-style-type: none"> 120, 1250-50, 230, 277 and 480 Vac configuration available Single or 3-phase delta options Standards: RoHS compliant, IEC 61643-1 Class II, IEC EN60529

DC Surge Protection



PRODUCT	FEATURES AND 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 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 • Standards: IEEE C 62.41, FM approval Class 1 Division II, CE, ATEX EU Directive 94/9/EC, UL 497B (except DRDC-70)
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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, IEEE C62 41, UL 497B
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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: IEC 61643-1, RoHS compliant
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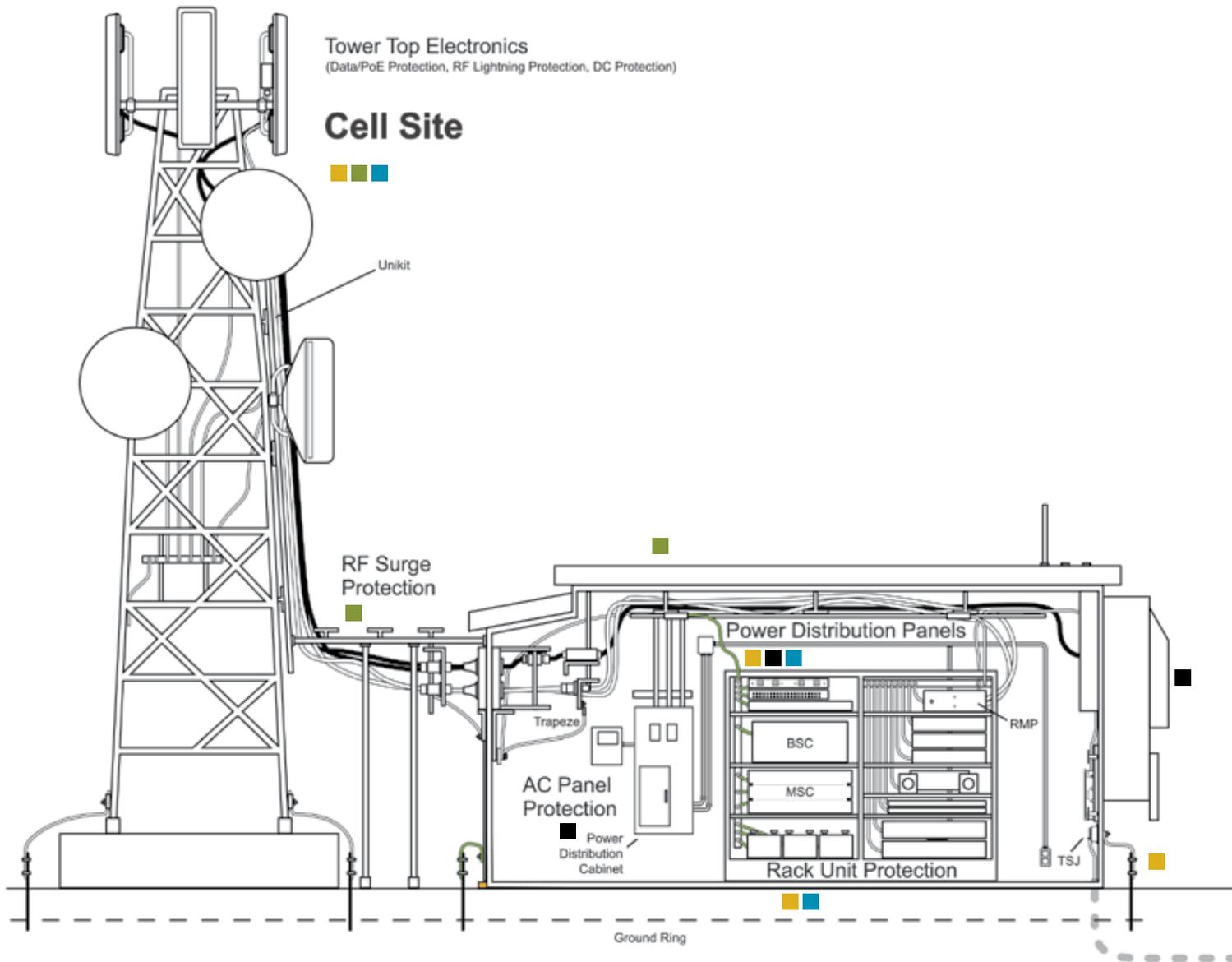
DRI Series Two pair or four wire protection approved for hazardous locations	<ul style="list-style-type: none"> • SASD technology • Line and load bidirectional protection • Plug-in, suppressor modules, DIN rail mount • Visual and remote (dry contact relay) status indication 	<ul style="list-style-type: none"> • 24, 120 Vdc configurations • FM approval Class 1 Division II, ATEX EU Directive 94/9/EC
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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 • Standards: IEEE C62.41, UL 497B
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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 8/20us surge withstand configurations available • Standards: IEC 61643-11 compliant, CE 6095, NEMA 3R
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DATA LINE PROTECTION

RF PROTECTION



Thunderbolt



ALPU PoE



ALPU-FIT



TSXDC

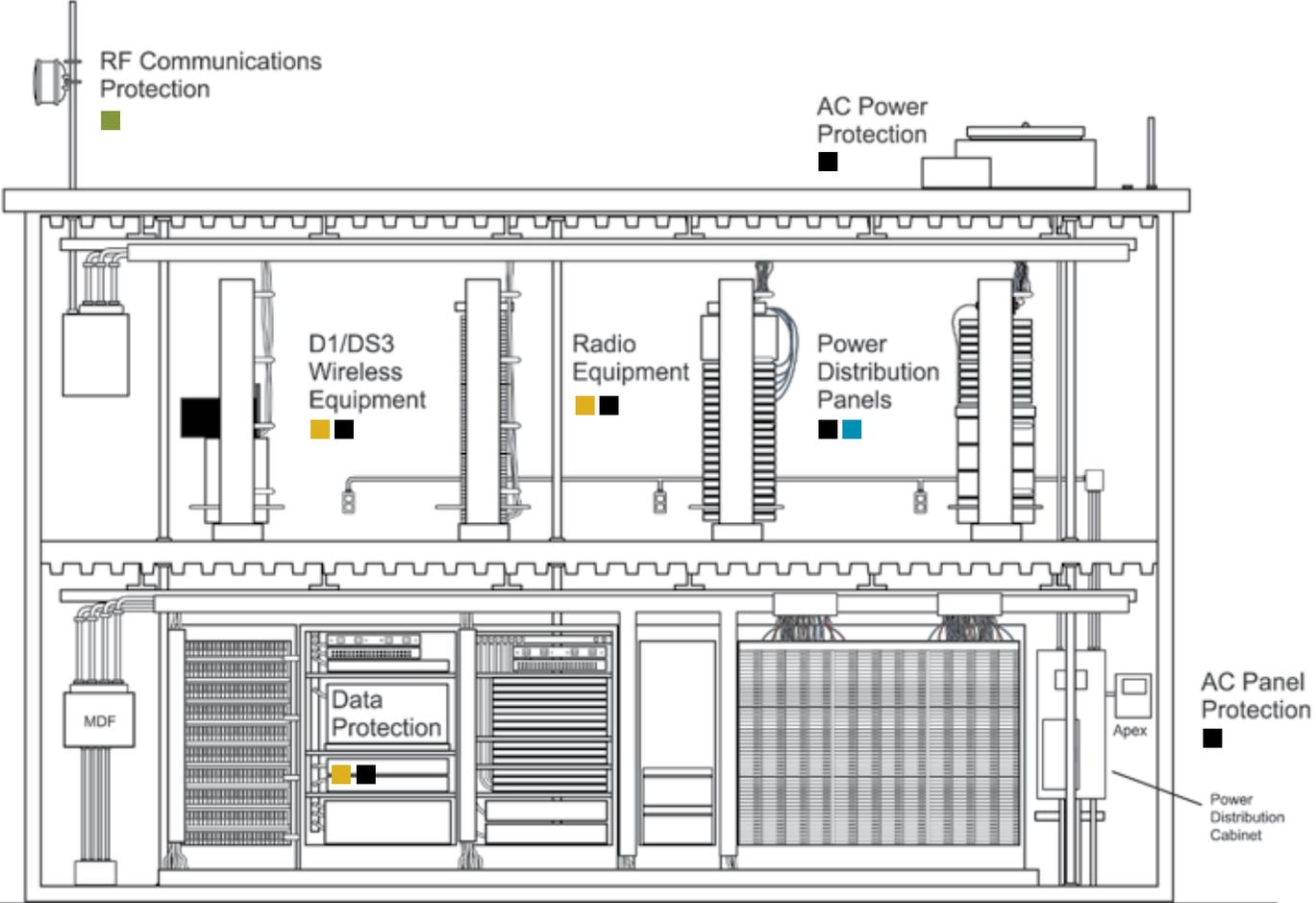


DGXZ



GT

Mobile Telephone Switching Office



Fiber / Copper

AC PROTECTION



SuperHy



MCP

DC PROTECTION



DC Edge



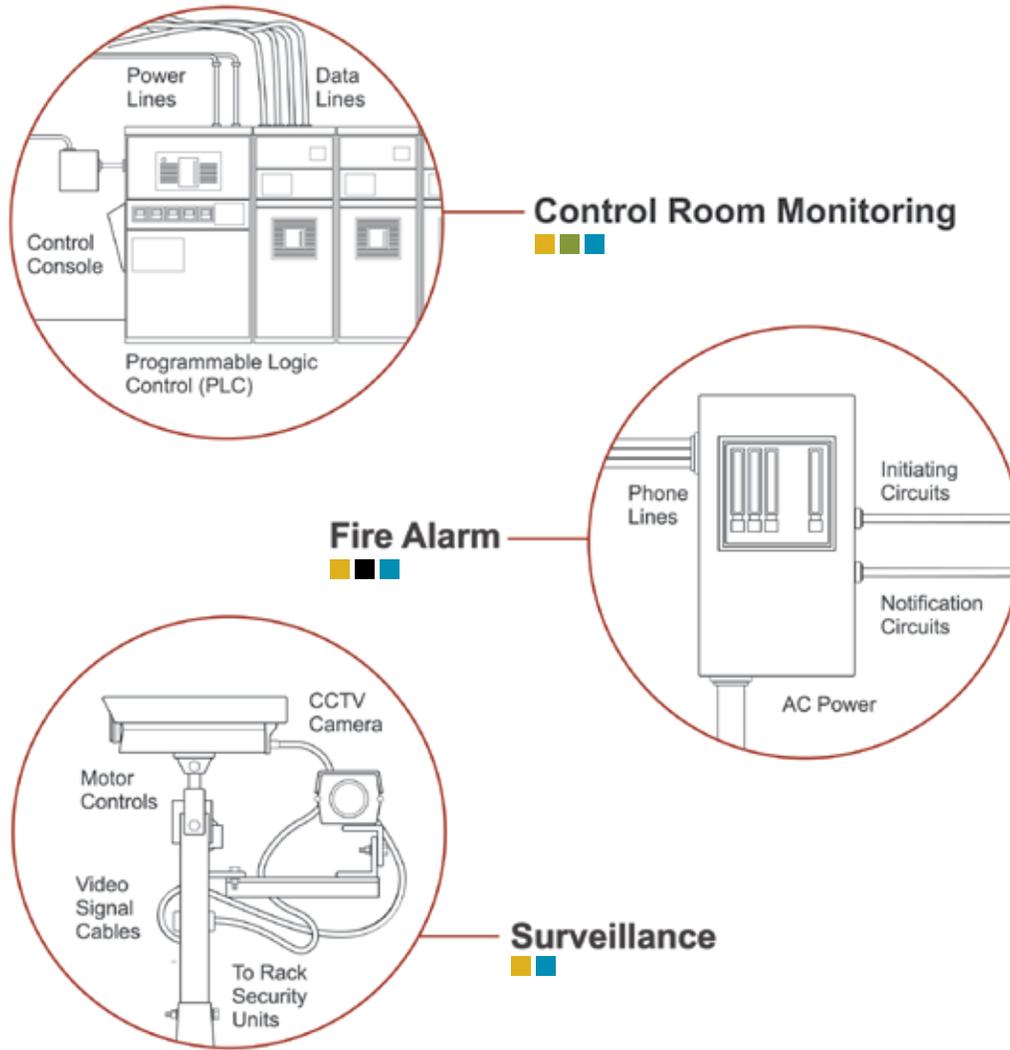
DRDC



DC Defender



DCOD



DATA LINE PROTECTION



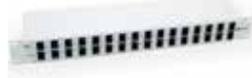
ALPU PoE



ALPU-FIT



DPR



CPX

RF PROTECTION



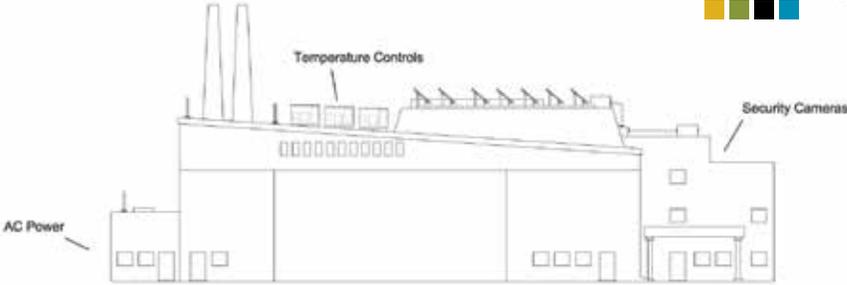
IS-B50LN-C2



AL-LSX



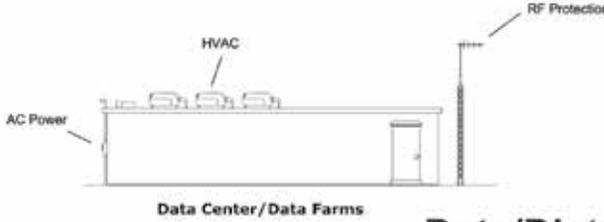
Banking Facilities



Commercial Sites



Government Institutions



Data/Distribution Sites



AC PROTECTION

DC PROTECTION



TSX



MCP 240



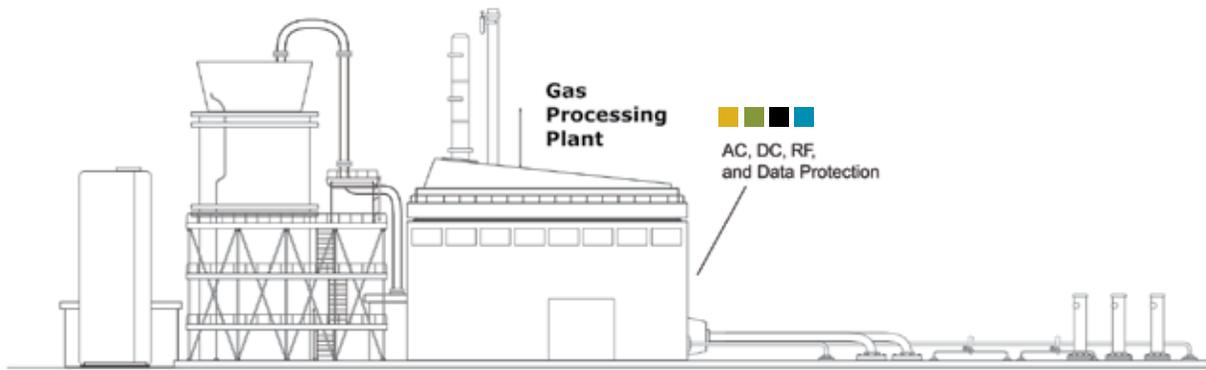
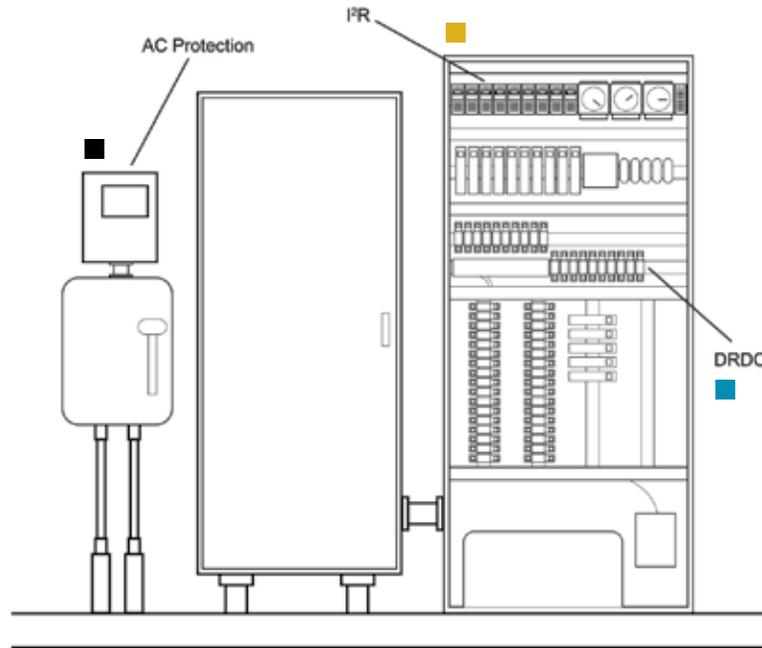
SuperHy



DRDC



DRI



DATA LINE PROTECTION



TSJ PoE 56



DPR

RF PROTECTION



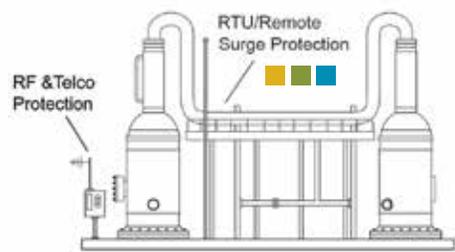
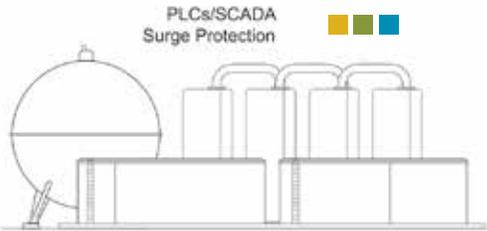
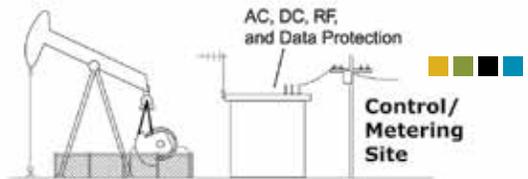
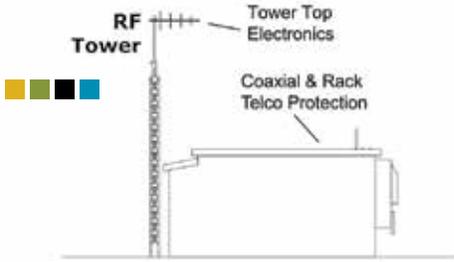
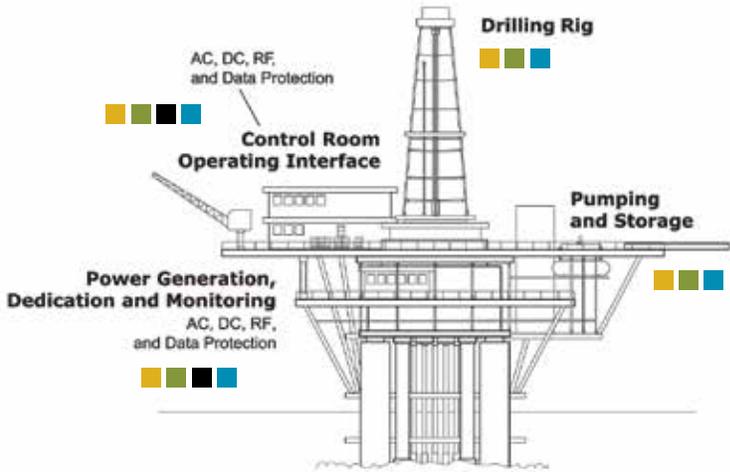
AL-LSX



IS-B50LN



TSX



AC PROTECTION

DC PROTECTION



IEC Series



I2R ICP

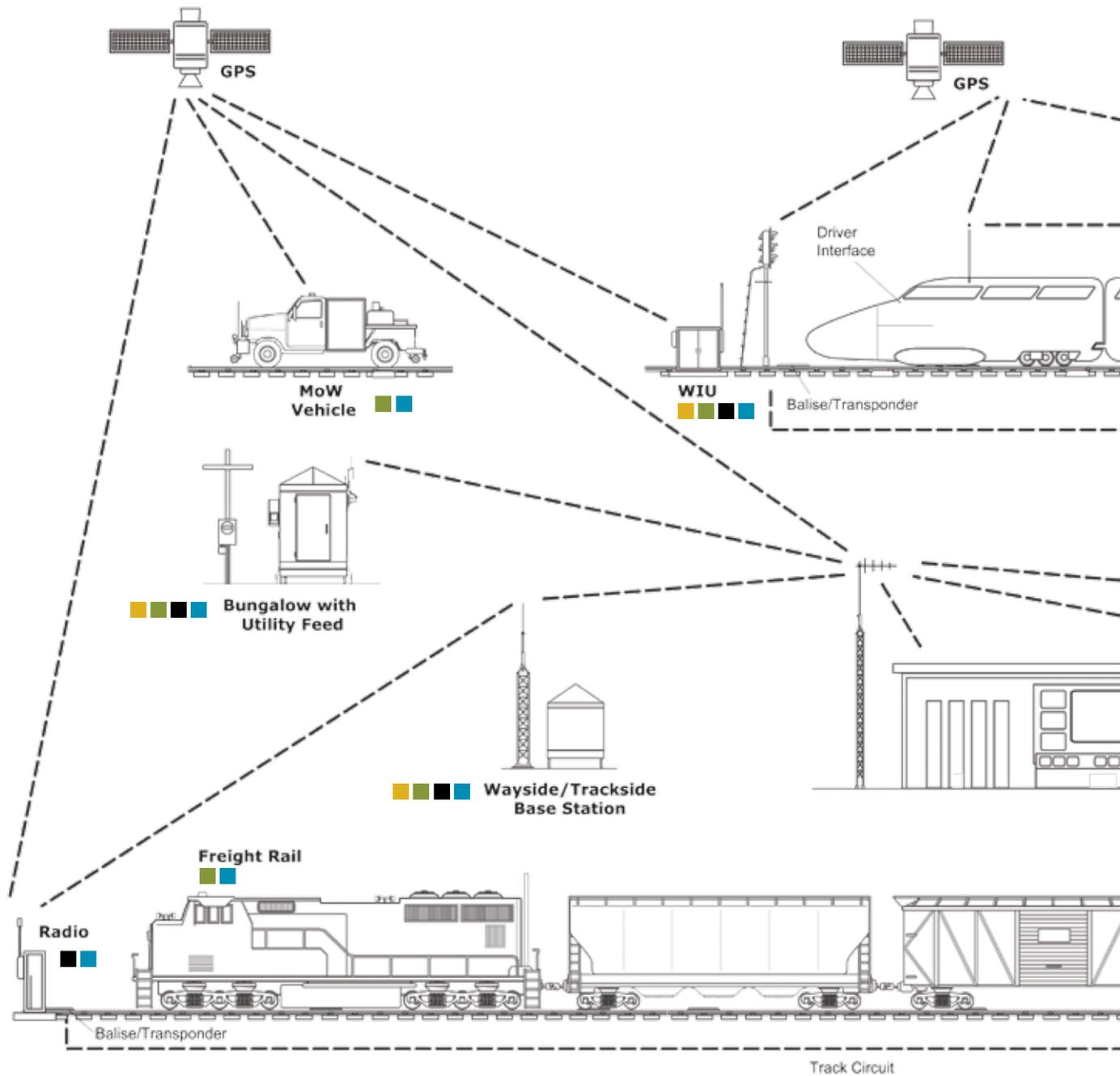


DRDC



DRI Series

Rail Transportation Solutions



DATA LINE PROTECTION

RF PROTECTION



ALPU PoE



TSJ PoE 56



DGX



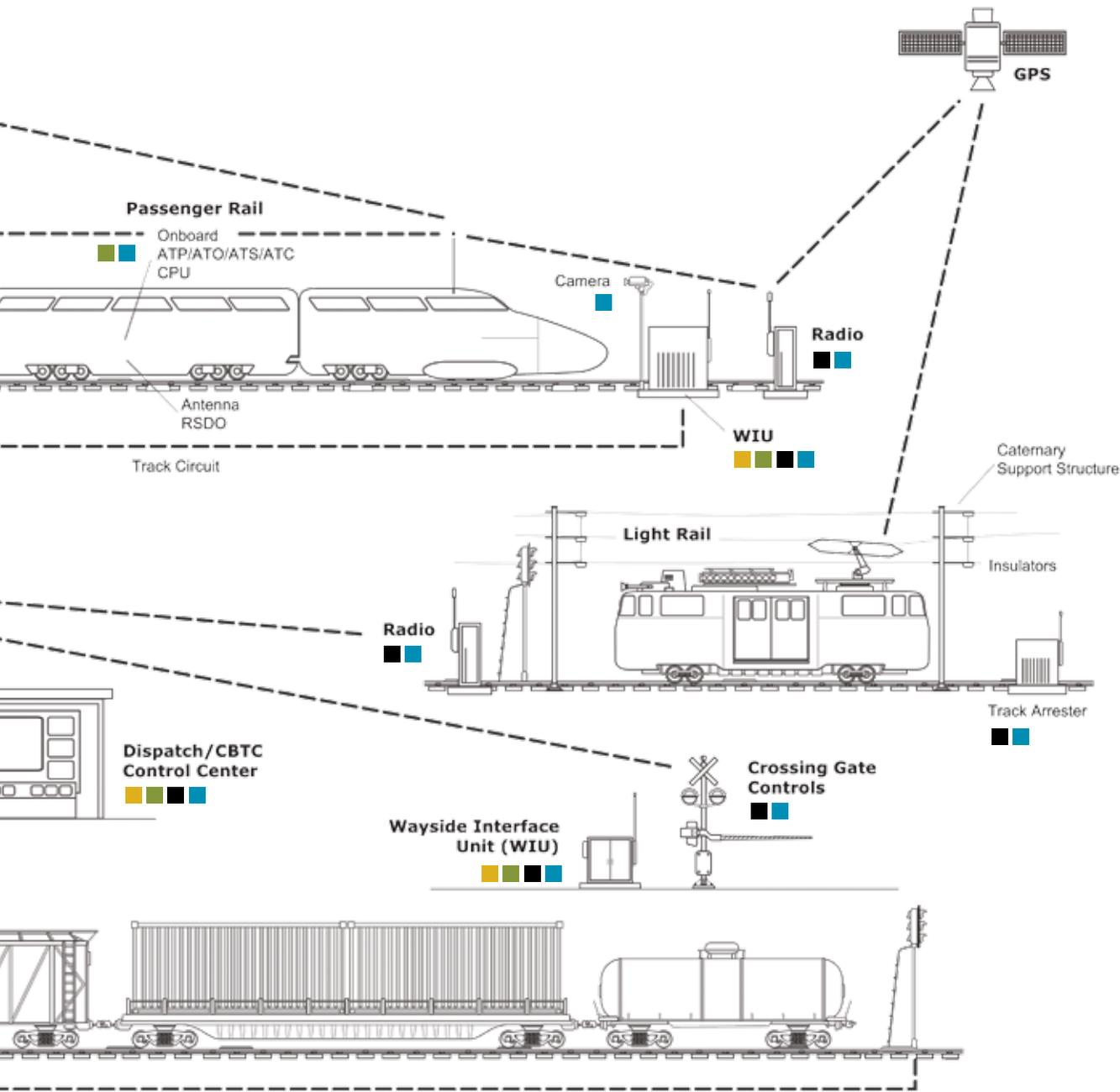
VHF50HN



AL-LSX



TSX



AC PROTECTION

DC PROTECTION



I2R SA 240-50



SuperHy



DRDC



DRI24



I2R IEP

