Network Surge Protection Basics

Key:
- **High Risk Copper Connections**
- **Protected Copper Connections**
- = Path of Surge

DTK-MRJPOES
Point of use Surge Protectors

DTK-CAT6A Series
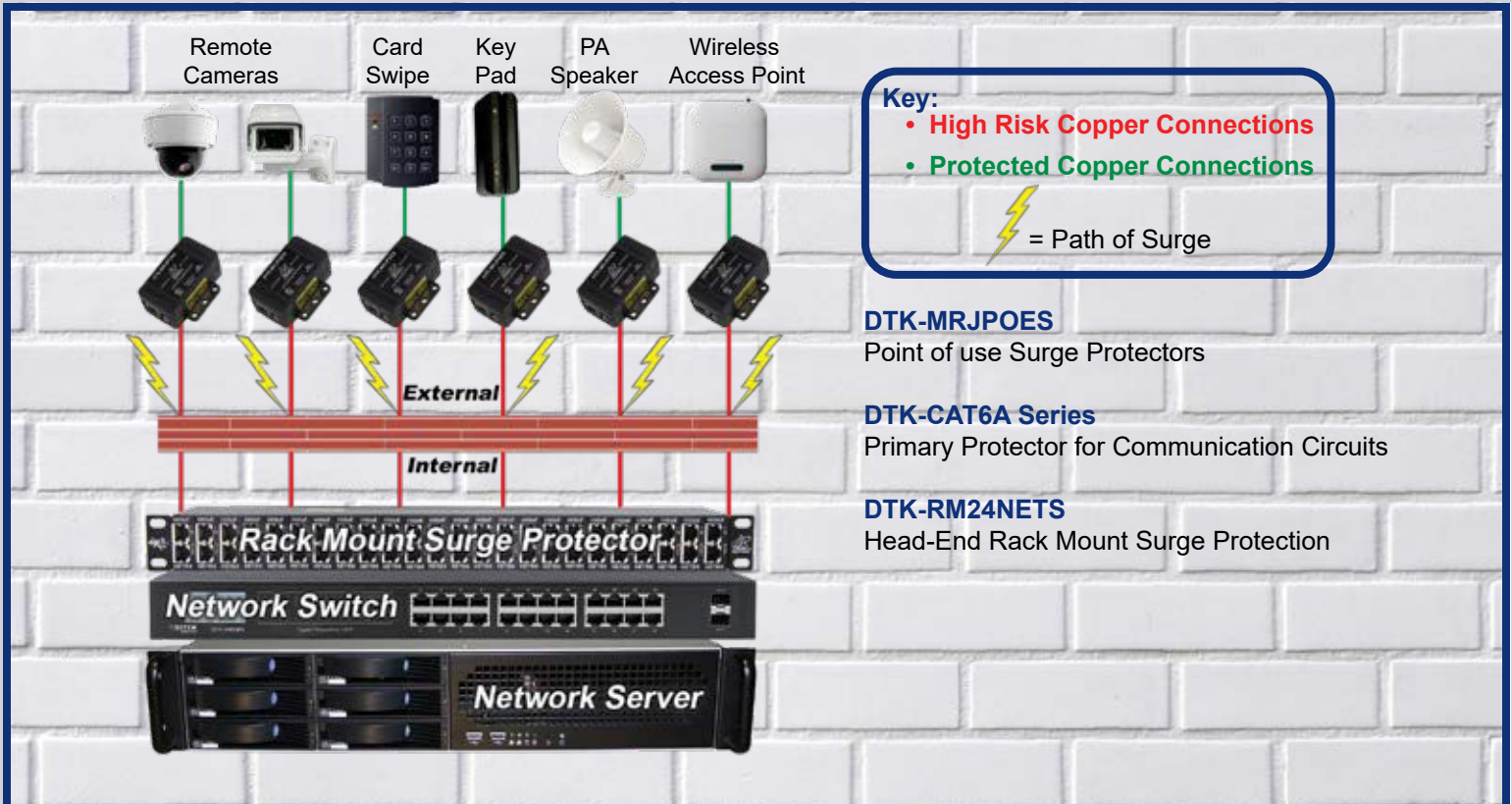Primary Protector for Communication Circuits

DTK-RM24NETS
Head-End Rack Mount Surge Protection

Fire, security, communication and data information networks, along with all the connected electronic devices and equipment, are essential to the operation of organizations today; whether they are businesses, schools, governmental agencies or non-profits. If these devices are damaged or inoperable for any reason, normal operation instantly becomes difficult, and in some cases, impossible. Downtime on a security system for example, could result in missing video surveillance data with corresponding increased risk for loss, damage and liability. In a data center, downtime could risk the loss of critical customer or operational information. When a fire alarm panel goes down you could be required to vacate the building indefinitely, or implement costly fire watch personnel until the equipment is restored.

It only makes sense to protect this equipment and support it with an infrastructure that is suitable for longevity and peak performance. Implementing electrical surge protection is the simplest and most cost-effective way to protect these vital systems from potential damage due to power surges and spikes - especially when you consider downtime. It is also recommended to install an uninterruptible power supply (UPS). A UPS provides consistent backup power during inconsistent power quality issues. Not only will it protect your hardware investment, it prevents data loss.

Contact us for a free evaluation of your current surge protection needs.

Online Uninterruptible Power Supplies (UPS)

DITEK's DTK-UPS+ series is designed with the latest online double conversion UPS technology to enable your equipment to survive even the harshest power quality issues. From surges and spikes to brownouts and complete power loss, the DTK-UPS+ series will keep your equipment up and running when it matters most.

- Models available in 1kVA, 1.5kVA, 2kVA & 3kVA
- Compliant to U.S. DOE Energy Conservation standard efficiency requirements
- Invisible transitioning between AC & battery
- USB & Ethernet interfaces available on all models
- Intuitive LCD display

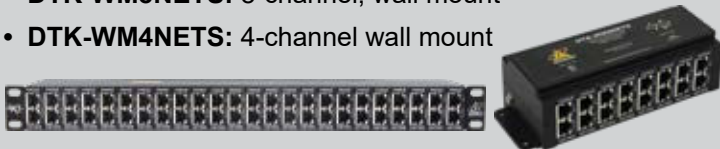# Network Surge Protection

DITEK's "NETS" series sets a new standard in surge protection for Ethernet, PoE and PoE extender circuits. Each model supports data speeds up to 10GbE without signal degradation, and carries a robust 20kA per pair surge current rating, the highest in the industry. Available in both rack mount and wall mount enclosures.

- Ideal for installations where multiple cabling feeds require protection before entering network switches
- Rapid-replacement modules can be swapped from front of device without removing it from rack
- Hybrid design utilizing SAD & GDT technologies for optimal protection
- Complies with all IEEE Power over Ethernet standards

Ethernet & PoE Surge Protectors

- **DTK-RM24NETS:** 24-channel, 1U rack mount
- **DTK-RM16NETS:** 16-channel, 1U rack mount
- **DTK-RM12NETS:** 12-channel, 1U rack mount
- **DTK-WM8NETS:** 8-channel, wall mount
- **DTK-WM4NETS:** 4-channel wall mount

Rapid-Replacement Modules

Mix & match replacement modules to protect Ethernet, PoE & PoE extender circuits within the same housing.

- **DTK-NETMS:** For Ethernet & PoE circuits
- **DTK-EXTMS:** For PoE Extender circuits

PoE Extender Surge Protectors

- **DTK-RM24EXTS:** 24-channel, 1U rack mount
- **DTK-RM16EXTS:** 16-channel, 1U rack mount
- **DTK-RM12EXTS:** 12-channel, 1U rack mount
- **DTK-WM8EXTS:** 8-channel, wall mount
- **DTK-WM4EXTS:** 4-channel wall mount

DTK-CAT6A Series

- 10 Gigabit Ethernet surge protector
- UL497 primary protector for communication circuits
- Available in 110 punch down in/out or 110 in/shielded RJ45 female out
- Protects all four pairs

Versa-Module 2 Series Surge Protection System

The Versa-Module 2 series is a unique, modular solution for protecting various combinations of signaling, data and low voltage power circuits. Enclosures and modules are sold separately, allowing you to "build your own" protection solution that accommodates various circuit types. With the option of 4, 8 and 24 channel enclosures, the VM2 series offers a vast array of customizable solutions for every application. Its rapid-replacement modules, available in both RJ45 and screw terminal configurations, and single point grounding makes installation and service replacement a breeze.

VM2 Series Features & Specs

- Rapid-replacement modular surge protection system with single point ground
- Hybrid design utilizing SAD & GDT technologies
- Mix & match modules to protect 5V to 130V, with RJ45 & screw terminal configurations
- Applications include 24V PoE systems, fueling equipment, point-of-sale devices, low voltage power circuits, RS485 data circuits & 70V audio amplifiers

Rack & Wall Mount Enclosures

DTK-VM2 Series enclosures also accept the DTK-NETMS and DTK-EXTMS protection modules for added versatility.

- **DTK-VM2R24:** 24-channel, 1U rack mount
- **DTK-VM2W4:** 4-channel, wall mount
- **DTK-VM2W8:** 8-channel, wall mount

RJ45 Protection Modules

- **DTK-VM2M5:** 5V, RJ45 in/out
- **DTK-VM2M12:** 12V, RJ45 in/out
- **DTK-VM2M24:** 24V, RJ45 in/out
- **DTK-VM2M36:** 36V, RJ45 in/out
- **DTK-VM2M48:** 48V, RJ45 in/out
- **DTK-VM2M75:** 75V, RJ45 in/out
- **DTK-VM2M130:** 130V, RJ45 in/out

Screw Terminal Protection Modules

- **DTK-VM2TM5:** 5V, 2 pair in/out, 14AWG
- **DTK-VM2TM12:** 12V, 2 pair in/out, 14AWG
- **DTK-VM2TM24:** 24V, 2 pair in/out, 14AWG
- **DTK-VM2TM36:** 36V, 2 pair in/out, 14AWG
- **DTK-VM2TM48:** 48V, 2 pair in/out, 14AWG
- **DTK-VM2TM75:** 75V, 2 pair in/out, 14AWG
- **DTK-VM2TM130:** 130V, 2 pair in/out, 14AWG