



## PRODUCT APPLICATION NOTE

### Automated Teller Machine Protection

#### Electrical Protection for ATM Banking Systems

*Reduce downtime,  
increase revenue,  
and ensure the  
availability of your  
Automatic Teller  
Machines (ATM)  
and mission-critical  
bank infrastructure  
with field proven  
Strikesorb®  
technology.*



One of the most important issues facing retail banking institutions today is the reliability and availability of their critical systems. ATM machines are a primary access point through which customers interface with banks. When ATM machines are out-of-order, banks lose business, customers are displeased, and the banks' valuable brand image can be damaged.

#### **The Challenge**

Sensitive electronic equipment in banking institutions depends upon a consistent and stable power supply. ATMs are especially vulnerable to the devastating effects of transient overvoltages, events where the magnitude of the voltage increases significantly for a relatively short period of time. Transient power surges due to lightning, unstable grid power quality, or internally generated overvoltages can negatively impact the power supply or the communications system of an ATM.

When an ATM is damaged and offline, maintenance technicians need to identify the damaged equipment and carry out repairs which sometimes can take many hours. Hourly wages, travel time and lost revenue all add up to a significant impact on the bank's bottom-line. However none of this can compare to the long-term cost of completely losing a customer because of frequently failing ATMs.

# Raycap



INNOVATING POWER PROTECTION WORLDWIDE

## Solution

Raycap solutions featuring award-winning Strikesorb surge protection technology can eliminate the losses caused by voltage transients. Once installed, Raycap's easy-to-install Surge Protective Devices (SPDs) can effectively protect ATMs and other mission-critical systems. The ATMp230-240A product shown in Figure 1

*Raycap's surge protection systems provide the ultimate electrical protection to ATM machines and other mission-critical bank systems. Strikesorb is a high surge capacity protection component, that is able to efficiently and consistently manage multiple high energy surges. Raycap solutions offer maintenance-free protection and are perfectly suited for these applications.*

is a small-footprint solution especially suitable for ATMs located in difficult-to-access areas where power quality or lightning activity create a major threat to efficient operation.

## Conclusion

Raycap offers many solutions to protect ATMs from the damaging effects of transient power surges. The company's

product line aimed at bank infrastructure features Raycap's unique Strikesorb technology that protects valuable equipment thereby improving ATM up-time, reducing service calls and system lockups due to power related issues.



Figure 1: ATMp230-240A is suitable for minimizing the threat to power operations in a small compact, easy to install solution.

## Strikesorb Benefits

- Maintenance-free operation
- Quick and straightforward installation in any ATM
- Safe operation: No smoke, fire or explosion
- Unique capability to withstand multiple high-energy transients
- Low let-through voltage, therefore providing excellent protection compared with competitive SPD products
- Class II compliant SPD per IEC 61643-11
- Global standards compliance: UL 1449<sup>5th</sup> Edition, IEC, IEEE, NEMA
- 10 year global product warranty

***Raycap is a trusted partner, providing maintenance-free electrical protection solutions for mission-critical applications in hundreds of thousands of installations worldwide. For a detailed presentation on how Raycap's Strikesorb-based solutions can protect your ATM equipment, contact us today!***

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[www.raycap.com](http://www.raycap.com)

