AI Infographic

Eaton's key electronic components to enhance the performance and reliability of your AI applications

Challenges

- Limited space
- High energy consumption level
- Thermal management
- Complex power management
- Rugged environmental conditions

Solutions

- Compact and slim body
- Low energy consumption
- Good heat dissipation
- High-density, high-power products
- High reliability

Circuit Protection

Overvoltage protection

High power TVS diode

Polymer ESD suppressor

Integrated MOV / GDT device

Overcurrent protection

EAC10 10 mm high breaking capacity fuse

1025FA Fast-acting SMD fuse

SR-5 Radial time-delay fuse

2822HC High current fuse

1025HC High current fuse

1245HC High current fuse

1210HC High current fuse

Signal integrity

Common-mode choke

LAN transformer

Accurate timing

Crystal resonator

RF matching

WCL wire wound chip inductor

MCL / MCQ multilayer chip inductor

Temperature sensing

Epoxy coated NTC thermistor

Current sensing

Current sense transformer

Metal shunt

Sensing

Power

Backup power

RTC backup

KW / KVW coin cell supercapacitor

KR / KVR coin cell supercapacitor

load balance

XLCM cabinet single & three phase (for UPS system)

62 V and 96 V supercapacitor module

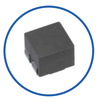
localized power

TV Supercapacitor cylindrical cell

PHV Supercapacitor cylindrical pack

Power inductor

Flat pack inductor



Coupled inductor

HCV High current power inductor

Power conversion

EPM isolated / non-isolated DC-DC converter

AC filtering film capacitor

DC-link film capacitor

Safety film capacitor

Pulse film capacitor

Burst of power

High voltage supercapacitor module

Eaton's AI-applicable electronics incorporate advanced technologies that provide precise data, optimize performance and enhance safety capabilities

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