

ATCA Load Blade

Advanced TCA™

ATCA Load Blade Datasheet

Key Features

- ATCA-compliant load blade
- Up to 600W front blade load
- IP and Serial communication for controlling application
- Rich set of sensors and indications
- Full software control over the load power consumption for each of the four power segments



Some technical changes are without prior notice

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Description	
Supply voltage	
Input voltage	48/60V nominal Input voltage; 40V to 72V voltage range
EMC control	Input filter & surge protection to meet EMC regulations
Surge control	Inrush current control to prevents high current surges during hot insertion and input voltage abrupt changes
Power circuits	
Load	Up to 600W per front blade Load power accuracy: better than 2%.
Structure	Four load sectors; each sector is individually controlled by software; heatsink and over temperature sensor per segment
Software	
Communication	Serial and IP via Ethernet & USB by front panel connectors
Input parameters	Input voltage A & B Input current per power segment Air temperature per power sector Power sector temperature Status LED
Control parameters	Dissipated power per segment; 10W resolution Power source A and B CPU reset Temperature upper thresholds
Interfaces	
RS232	Serial interface
100/1000 BaseT	External management
USB	Management
Voltage Testing point	-48V Measurement
Voltage Outlet	External Load
IPMB	ATCA IPMB Access through Shelf Manager (to be implemented)
Hardware protections	
Over current	Input over current threshold
Voltage lockout	Input Over voltage and under voltage thresholds
Inrush current	Inrush current suppression
Over temperature	Over temperature protection; Trip temperature: 85 ⁰ C
Sensors and indications	
LCD panel	All parameters are displayed on a front-panel LCD
Temperature	Four power sector temperature sensors
Status LED	Blade Status LED: green / red – OK / faulty
On/Off switch	Switch to turn on and off the load
Physical	
Dimensions	280 x 322 mm (ATCA compliant)
Weight	3.1Kg
Operating Temperature	-5°C to +55°C
Storage Temperature	-40°C to +70°C
Humidity	5% to 95%, non-condensed