

Power Consumption for a DC-Powered JCS1200 Platform

Table 1 lists the power requirements for base DC-powered routers operating under typical voltage conditions and includes nonredundant and redundant power supply configurations.

Table 1: DC-Powered Base JCS1200 Platform Power Requirements

DC Power Supply Configuration	Power Requirement (Watts)	DC Input at 88% Efficiency	Current Requirement (Amps @ -48 VDC)
4 DC power supplies, 4 fan modules, 1 management module, 1 media tray, 1 switch module, 1 midplane, 1 MUX card, 1 alarm panel module, (nonredundant configuration)	735 W	835 W (approximate)	17.4 A (approximate)
4 DC power supplies, 4 fan modules, 1 management module, 1 media tray, 1 switch module, 1 midplane, 1 MUX card, 1 alarm panel module, 12 Routing Engines (nonredundant configuration)	4095 W	4653 W (approximate)	96.9 A (approximate)
4 DC power supplies, 4 fan modules, 2 management modules, 2 media trays, 2 switch modules, 1 midplane, 1 MUX card, 1 alarm panel module, (redundant configuration)	1015 W	1153 W (approximate)	24.0 A (approximate)
4 DC power supplies, 4 fan modules, 2 management modules, 2 media trays, 2 switch modules, 1 midplane, 1 MUX card, 1 alarm panel module, 12 Routing Engines (redundant configuration)	4375 W	4972 W (approximate)	103.6 A (approximate)

Table 2 lists the lists the power requirements for various hardware components when the platform is operating under typical voltage conditions.

Table 2: DC-Powered JCS1200 Platform Component Power Requirements

Item	Power Requirement (Watts)	DC Input at 88% Efficiency	Current Requirement (Amps @ -48 VDC)
Alarm panel module	10 W	11 W (approximate)	0.2 A (approximate)
Fan module	85 W	97 W (approximate)	2.0 A (approximate)
Management module	20 W	23 W (approximate)	0.5 A (approximate)

Table 2: DC-Powered JCS1200 Platform Component Power Requirements *(continued)*

Item	Power Requirement (Watts)	DC Input at 88% Efficiency	Current Requirement (Amps @ -48 VDC)
Media tray	15 W	17 W (approximate)	0.4 A (approximate)
Midplane	10 W	11 W (approximate)	0.2 A (approximate)
MUX card	15 W	17 W (approximate)	0.4 A (approximate)
Power module	36 W	41 W (approximate)	0.9 A (approximate)
Routing Engine	280 W	318 W (approximate)	6.6 A (approximate)
Switch module	45 W	51 W (approximate)	1.1 A (approximate)

- Related Topics**
- Site Electrical Wiring Guidelines for the JCS1200 Platform
 - DC Power Supply Electrical Specifications for the JCS1200 Platform
 - Connecting the JCS1200 DC Platform to DC Power

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