

Allen-Bradley - ControlLogix

1756-PSCA2

Redundant Power Supply Chassis Adapter Module

Product identity and principal specifications

Manufacturer	Allen-Bradley
Model	1756-PSCA2
Product family	ControlLogix
Product type	Redundant power supply chassis adapter module
Hardware series	Series A
Dimensions	143.49 × 151.10 × 33.90 mm
Device function	Passive adapter for redundant ControlLogix power supplies
Current capacity at 1.2 V DC	1.5 A
Current capacity at 3.3 V DC	4.0 A
Current capacity at 5.1 V DC	15.0 A
Current capacity at 24 V DC	2.8 A
Compatible standard supplies	1756-PA75R and 1756-PB75R
Required power cables	Two 1756-CPR2, 1756-CPR2D, or 1756-CPR2U cables

System and environmental data

Power-cable length	0.91 m (3 ft)
Supported chassis	Compatible ControlLogix Series B chassis
Operating temperature	0 to 60 deg C
Storage temperature	-40 to 85 deg C
Relative humidity	5 to 95%, noncondensing
Vibration	2 g at 10 to 500 Hz
Operating shock	30 g

Documented role

1756-PSCA2 is a passive ControlLogix Series A chassis adapter. It funnels power from two supported redundant supplies through two redundant-power cables to the single power connector on a compatible Series B chassis backplane.

Selection and installation checks

- A complete redundant-power arrangement requires two compatible supplies, two supported cables, and one 1756-PSCA2 adapter.
- For 1756-CPR2, maintain the documented 127 mm (5 in.) bend radius; for 1756-CPR2D or 1756-CPR2U, allow 101.6 mm (4 in.) cable clearance.
- Verify chassis Series, cable style, total chassis load, grounding, annunciator wiring, and enclosure suitability before installation.
- The adapter provides power-path redundancy only; it does not duplicate the chassis, controller, network, I/O, or field power.