

# Optical Node Series

## PS4201-00

Power Supply for NC4 and OM4 nodes with extended lid for RPD applications

### FEATURES

- High-efficiency power supplies designed to support 2x2 RPD in NC4000 and OM41 nodes with extended lids
- PS4201: 44–95 V<sub>RMS</sub> 150 W power supply with 24, 12, and 5V<sub>DC</sub> nominal outputs
- Current limit, short circuit, overvoltage, and thermal shutdown protection
- Input and output voltage test points
- Hot swappable
- Monitoring via Opti-Trace® Software



### PRODUCT OVERVIEW

The PS4201 is a high performance, high efficiency power supply for selected ARRIS node platforms. The PS4201 is designed for use in NC4000 and OM41 nodes where the extended lid is required to support RPD deployments. The compact units accept AC (RMS quasi-square wave) input voltage as supplied by standard plant power systems and supports outputs at +24.0, +12.0, and +5.0 volts DC. Features include hot swap capability, redundant operation (with a second unit), current limit, and continuous short circuit and over voltage protection. All models support monitoring via the I<sup>2</sup>C communications bus enabling the Opti-Trace software to report model and serial number, input AC voltage, and all output DC voltage levels.

Note that the PS4201 is intended solely for use with the extended lids in both the OM41 and NC4 nodes, it uses a different power connector and it is not backward compatible with standard nodes or power supplies. Neither the PS4001 nor the PS4101 can be used with the extended lid.

## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions	7.0" D x 2.95" H x 3.3" W (17.78 cm x 7.50 cm x 8.38 cm)
Weight	2.25 lbs. (0.907 kg)
<b>Environmental</b>	
Operating Temperature Range	-40° to +60°C (-40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
<b>Electrical</b>	
AC Input (PS4201)	+44 to +95 V <sub>RMS</sub> 50/60 Hz (quasi-square wave) at 6.0 A max
Output Currents	Any combination of output power loads is acceptable up to the maximum rated power. Individual voltage currents must not exceed their stated maximums.
PS4201-00	150 W max total power
24 V	5.0 A max
12 V	8.0 A max
5 V	2.0 A max
<b>General</b>	
	Hot Swappable
	Overvoltage, over temperature and short circuit with auto reset
	6 KV minimum per SCTE
<b>Regulatory Compliance</b>	
	IEC/EN 60950-1; UL 60950-1; CSA C22.2 No. 60950-1 with NRTL and T-Mark certifications

## ORDERING INFORMATION

Power Supply Model Name	Description
PS4201-00	Node Power supply for NC4000, 150W High Efficiency with 24, 12, and 5V DC outputs. Used with enhanced NC4 and OM4 Lids for Remote PHY deployments. Not compatible with PS4101 or PS4001 applications.

Cable Part Model Name	Description
1512322-19	Connection cable for PS4201-00 in NC4600 nodes with extended Lid
1512769-001	Connection cable for PS4201-00 in OM41xx nodes with extended Lid

### NOTE:

Connection cables for power supplies must be ordered separately. One cable per power supply is required.

## RELATED PRODUCTS

NC4000 Scalable and Fiber Deep Nodes	OM4120 Nodes
RPD Modules	XE4202 Remote OLT
NH4600 Housing	

## Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

**Note:** Specifications are subject to change without notice.

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