



PDM-15 Power Distribution Module

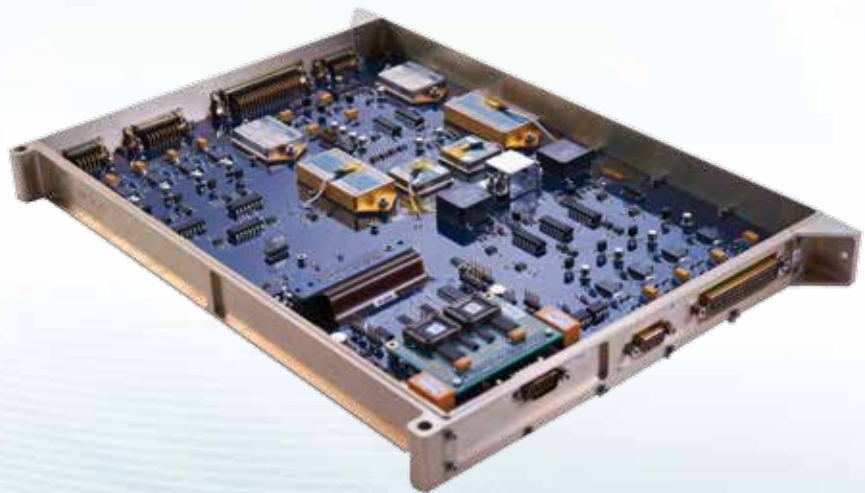
The PDM-15 series Power Distribution Module is a cost effective modular designed power distribution module, capable of distributing multiple power supply lines at different voltage levels to satellite subsystems and modules. Each power distribution line comes with built-in bi-level digital controlled switch circuit and current/voltage sensor, as well as over-current protection and in-rush current suppression.

The PDM is designed to take in unregulated bus voltage in the range of 16V to 40V and provide regulated voltage levels of 15V, 5V and 3.3V, and unregulated at 28V level.

The PDM-15 comes with a built-in hot-redundant digital controller that is capable of controlling the power distribution lines and sampling the current or voltage telemetry. It has a CAN bus interface to the OBC for command and telemetry collection, making the PDM a standalone module that is scalable and modular.

Key Features

- Cost effective modular design
- Adjustable over-current protection on power distribution line
- In-rush current suppression for every power distribution line
- Hot redundant or cold redundant DC/DC configuration
- Built-in digital controller for telecommand and telemetry



PDM-15 Power Distribution Board with Built-in Controller

PDM-15 Power Distribution Module

Technical Specifications

Dimensions	350 mm (L) x 250 mm (W) x 30 mm (H)	(Per tray)
Mass	1.8 kg (maximum)	(Inclusive of mechanical chassis)
Power Consumption	Minimum 1.5W, Maximum 5.5W	(For digital controller and switch circuit)
Temperature	-20°C to +70°C operating -40°C to +85°C non-operating	
Power Regulation	16V to 40V inputs Power input compliant to MIL-STD-461 Regulated 3.3V & 5V & 15V outputs with 2% load regulation Hot/cold redundant DC/DC configuration	
Power Distribution	Regulated 3.3V, 5V & 15V or unregulated 28V Maximum 15 power lines per module	
Power Ratings	Max distribution load: 15A Min distribution load: 0.25A	
Power Protection	Over-current protection and in-rush current protection for each power distribution line	
TC/TM Interface	Interface to CAN bus @ 500Kbps	
Telemetry	Analog 10 bits current/voltage telemetry Digital ON/OFF status telemetry	
Controller	Hot redundant digital controller	(With built-in latch up protection)



PDM-15 Power Distribution Board without controller

Note: All specifications are subject to change without notice.
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