

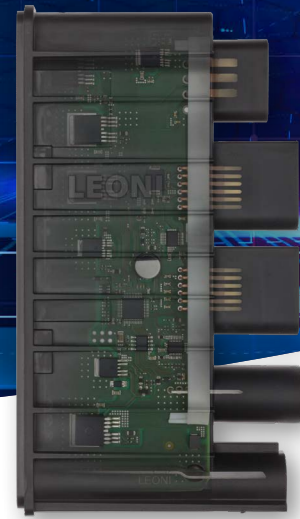
FACTSHEET

Intelligent Power Distribution Module (iPDM)

Fast and Reliable Distribution

iPDM is an intelligent electronic power distributor with a cut-off function that ensures and manages the power supply for a scalable number of connected loads in the vehicle. It can also protect connected lines against thermal overload.

The intelligent power distribution module with diagnostic functions is an essential part of an optimized energy management system. It allows power to be supplied to individual power-consuming components on an as-needed basis and with fail-safe features, as required for applications such as automated driving.



Features:

- Fast and safe distribution of nominal current $\leq 250A$
- Reversible switching and protection of connected loads
- Undervoltage protection for the power net by switching off unneeded and/or faulty loads
- Self-diagnostics, wire protection and diagnostics
- Pre-charging function for capacitive loads

Keyfacts:

Voltage level	12 / 24 / 48V
Nominal current	250A (@12V)
Number of outputs	up to 100
ASIL	ASIL B or C
Temperature range	-40° - 85°C
IP class	IP 5k2
Communication interface	LIN, CAN, CAN-FD, Ethernet
Software architecture	with or without AUTOSAR



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