

FACTSHEET

Intelligent Power Distribution Switch (iPDS)

Switching with Safety in Mind

iPDS ensures the power supply for safety-critical vehicle functions, thus creating the basis for automated driving.

Cutting off power net parts or loads that are not safety-relevant (e.g. comfort and entertainment systems) ensures the availability of safety-critical systems (e.g. electrical steering and brake support systems) in the event of faults, failures, or short-circuits.



Features:

- Fast, safe, and reversible switching of high nominal current $\leq 300A$
- 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	300A (@12V)
Number of outputs	up to 10
ASIL	ASIL B to D
Temperature range	-40° - 105°C
IP class	IP X9K
Communication interface	LIN, CAN, CAN-FD
Software architecture	with or without AUTOSAR



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