



12 A / 8 A / 15 A Core Supply Regulator with AVP and Watchdog

PF53

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The PF5300/PF5301/PF5302 integrate high-performance 12 A / 8 A / 15 A single buck converter respectively to power high-end processors. With adaptive voltage positioning and a high-bandwidth loop, it offers excellent transient response with reduced capacitance requirement.

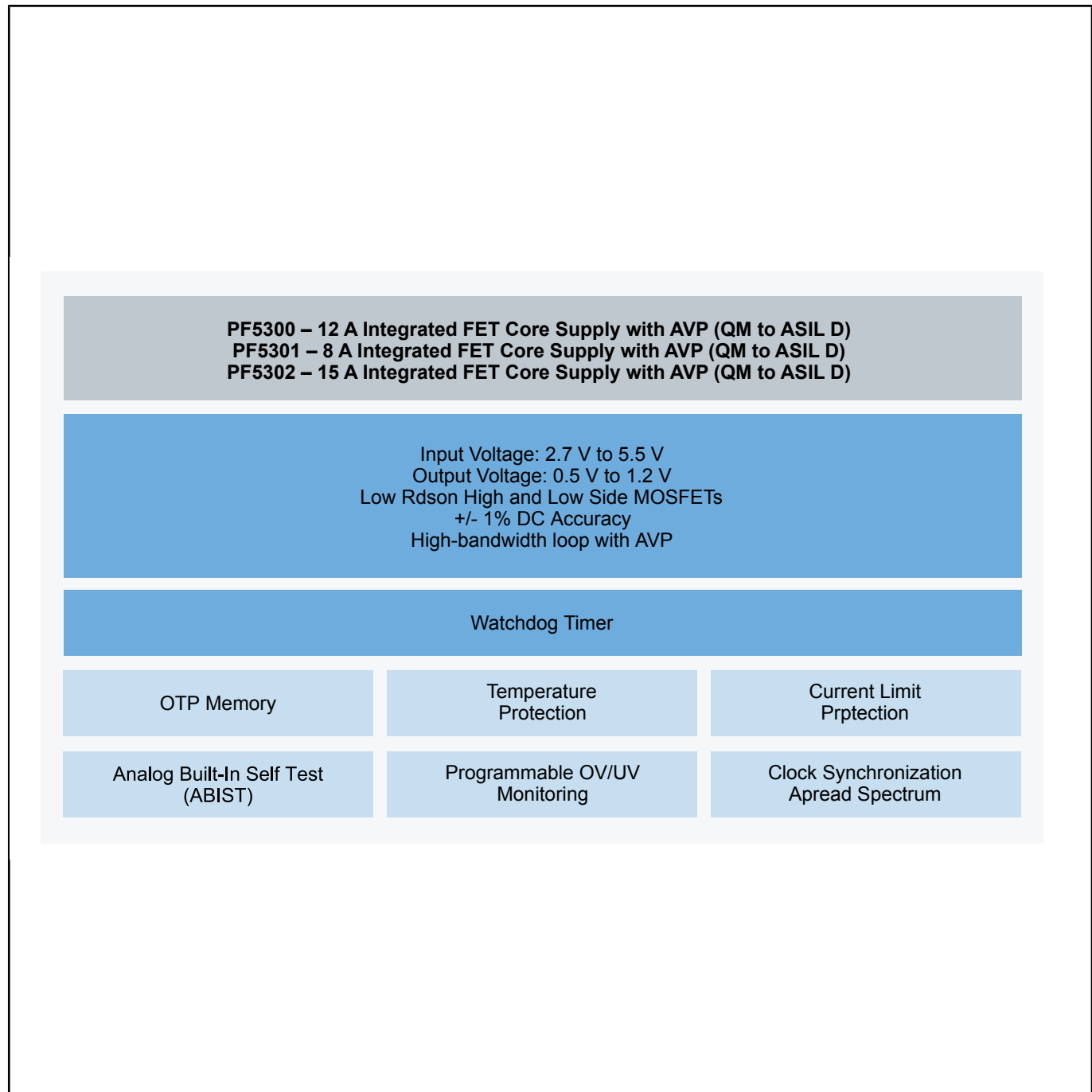
PF53 has been developed in compliance with ISO 26262 Automotive Safety Specification and is configurable with safety levels up to ASIL D and qualified according to AEC-Q100 requirements. This device is characterized across -40 °C to 125 °C ambient temperature range, making it a good option for the automotive and industrial markets.

This device is co-architected with VR5510 PMIC providing a complete system power solution for the [S32G3](#) processor.

The PF53 is also part of the BYLink system power platform enabling new smart approach to design multiple and scalable power management behaving like one.

PF53 devices are suitable for a variety of applications either as a standalone power solution or working in conjunction with other NXP PMICs to provide a complete system solution for today's advanced applications.

PF53 Block Diagram



View additional information for [12 A / 8 A / 15 A Core Supply Regulator with AVP and Watchdog](#).

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