Introducing

PMBus™ V1.3 with AVS!

The New PMBus Specification Applies to Multi-Markets

A Revised Standard with Broader Implications

The Power Management Bus (PMBus) is an open standard, power management protocol with a fully defined command language that facilitates communication with power converters and other devices in a power system. The previous PMBus specification, which has been adopted by over forty IC and power supply manufacturers, has been revised to V1.3 with Adaptive Voltage Scaling (AVS).

PMBus V1.3 with AVS now has broad implications for manufacturers of FPGAs, ASICs, SoCs, networking and communication processors, core processors for computing, server and storage markets, and any other type of core processor that will benefit by adaptively altering its own supply voltage.
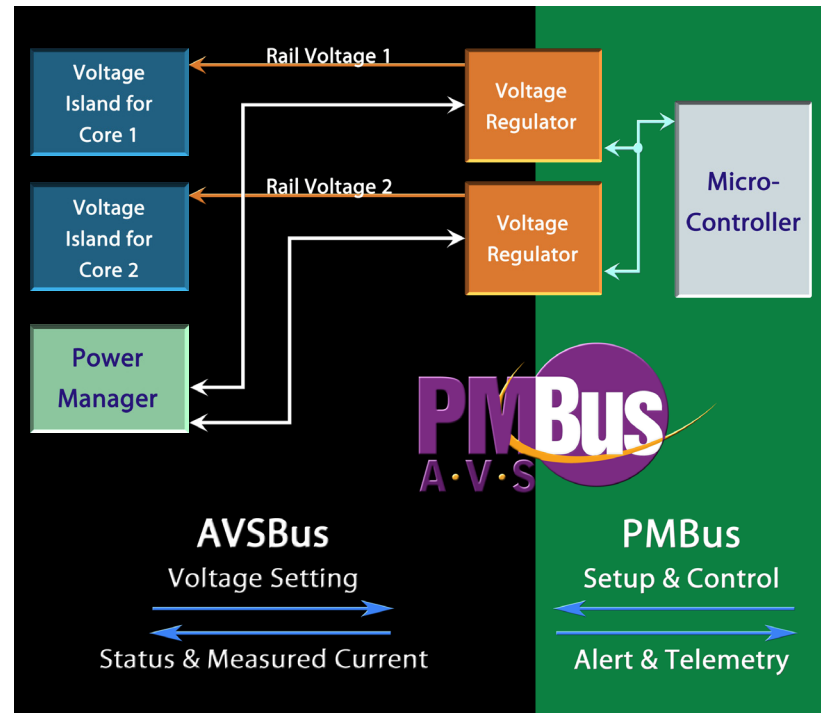
PMBus V1.3 with AVS Features

- 1 MHz bus speed vs. 400 kHz limit for PMBus V1.2.

- Floating point data format: supports NaN and +/-Inf, 16 bit number, IEEE 754 half precision and it allows easy conversion to C types.

- Relative voltage thresholds: allows programming all output voltage related values thresholds as a percentage of the output voltage.

- Zone Read/Write: enables partitioning of devices by zone for intelligent queries and operations.

- Adaptive voltage scaling (AVS): dedicated bus to statically and dynamically control processor voltages.

- First to Fault mechanism: enables easier detection of the root cause of a fault.

- Backward compatibility.

Find Out More!

To learn more about the benefits of becoming a PMBus member and how adopting the PMBus V1.3 with AVS specification can benefit your company, visit PMBus.org.

Contact us and we'll arrange for a member of the PMBus Working Group to contact you.

PMBus V1.3 heavily influences the direction of power management by including AVS.

PMBus Membership and V1.3 Adoption Benefits

PMBus.org members and V1.3 adopters now can develop products with improved power management capabilities. Members and adopters also enjoy significantly reduced manufacturing costs and time-to-market, increased functionality, and enhanced performance.

For more information visit PMBus.org or email admin@smiforum.org