

PMBus System Power Management and Protection IC Reduces Data Center Operating Expenses

National Semiconductor Corporation has released the industry's first system monitoring, protection and control integrated circuit (IC) with on-chip power management bus (PMBus) support. The LM25066 provides designers of blade servers, storage networking systems, routers/switches and modular subsystems with a solution that improves system reliability and reduces operating expenses in data centers. The LM25066 integrates high-performance monitoring, protection and control blocks that precisely control and manage the electrical operating conditions of each blade in the chassis. It also provides accurate monitoring of critical system power consumption and fault conditions. The device continuously supplies the system management host with real-time power, voltage, current, temperature and fault data for each blade subsystem. The LM25066's system management bus (SMBus) communications interface delivers this data using the PMBus protocol. The host's system diagnostic and optimization routines use the data to increase system reliability and minimize the data center's total power consumption. ,

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