PROFIBUS DP Slave Controller with serial Interface

VPC3+S
small and the smallest of them all

- SPI, I²C, parallel-interface
- 4 kByte communication RAM
- Function and software compatible with VPC3+C and SPC3 from Siemens
- Supports PROFIBUS DP-V0, DP-V1 and DP-V2 protocols
- HW-PLL for DP-V2 - ISOM
- Ultra Low Power, Vcc 3.3V
- Software stack and evaluation-kit
- BGA48 / LQFP48 package or proficonn-module

www.profichip.com
**PROFIBUS miniaturization**

**Description**

profichip’s VPC3+S is a communication chip with an 8 bit parallel, SPI or I²C microprocessor interface for intelligent PROFIBUS slave applications.

**Operation**

The VPC3+S handles the message and address identification, checks the data security sequences and protocol processes for PROFIBUS-DP. It supports as well acyclic communication and alarm messages, described in the DP-V1 extension. Features described in DP-V2 extension, as slave-to-slave communication Data eXchange Broadcast (DXB), clock synchronization and the Isochronous-Mode (IsoM), are also provided.

**Data transmission**

Automatic baudrate recognition and support of data transmission rates up to 12 Mbit/s, the complete PROFIBUS-DP protocol integration, 4 kByte communication RAM and flexible processor interfaces are features to create state-of-the-art PROFIBUS slave applications.