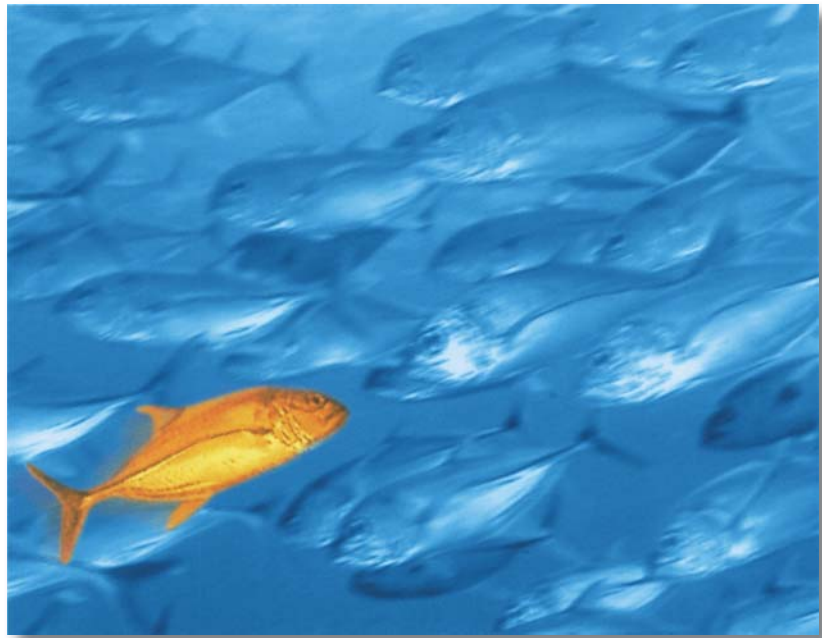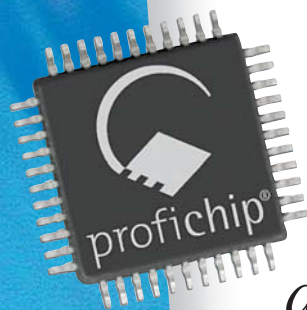**NEW FEATURES**

VPC3+C

PRODUCT INFORMATION

PROFIBUS-DP-V0/-V1/-V2 Slave Controller ASIC
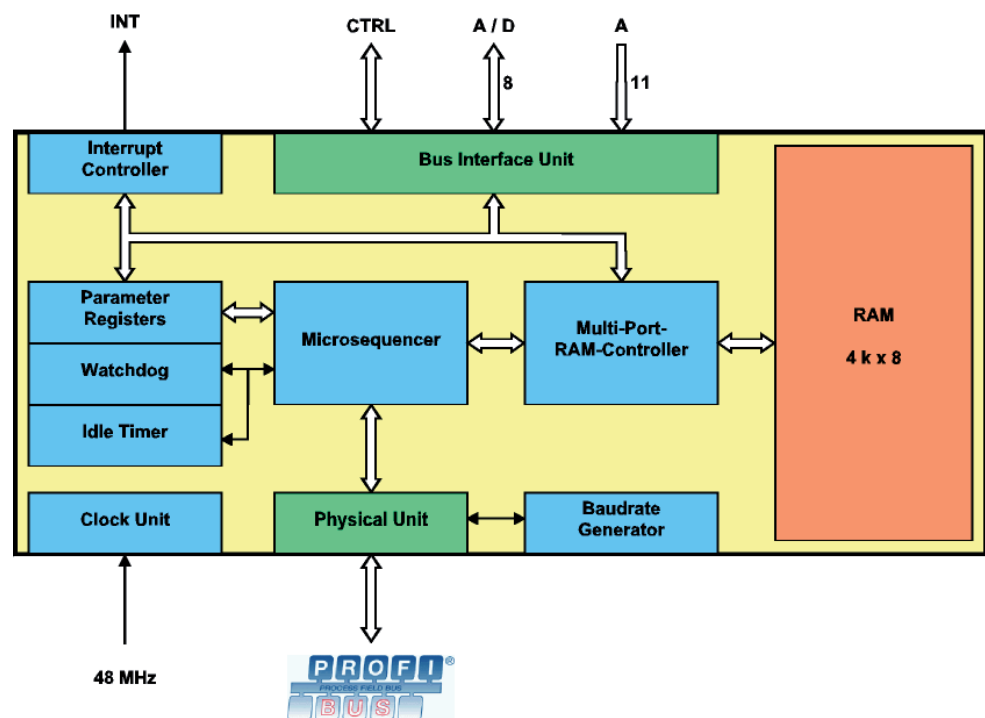
automation in silicon

profichip®

automation in silicon

Profichip's VPC3+C is a communication chip with 8 Bit Microprocessor interface for intelligent Profibus slave applications. This chip represents an enhancement of the VPC3+B in terms of protocol functions and power consumption.

Features:

- Upgrade of VPC3+B, pin and function compatible with SPC3 from Siemens
- Supporting PROFIBUS DP-VO, DP-V1 & DP-V2 protocol (DxB + IsoM)
- 4 KByte communication RAM
- Configurable 8-Bit µController interface
- 5V or 3,3V supply voltage, 5V tolerant inputs
- Low power consumption
- Software Stack (incl. new I&M functions) and EVA-Kit available
- Package PQFP44 (RoHS compliant)

- *NEW* DP-V2 clock synchronisation (only VPC3+CLF3)
- *NEW* 20% reduced current consumption (only VPC3+CLF3)

The VPC3+C handles the message and address identification, the data security sequences and the protocol processing for Profibus-DP. In addition the acyclic communication and alarm messages, described in DPV1 extension, are supported. Furthermore the slave-to-slave communication Data eXchange Broadcast (DXB) and the Isochronous Mode (IsoM), described in DPV2 extension, are also provided.

Automatic recognition and support of data transmission rates up to 12 Mbit/s, the integration of the complete Profibus-DP protocol, 4 KByte communication RAM and the configurable processor interface are features to create high-performance Profibus slave applications. The device can be operated with either 3.3V or 5V single supply voltage. For 3.3V operation the inputs are 5V tolerant.

VPC3+C is pin-compatible to VPC3+/3+B. Therefore VPC3+C can replace them in existing applications without any restrictions or SW-modifications.

More Information / Orders:
Ph.: +49 9132 744 210
Fax: +49 9132 744 204
info@profichip.com
www.profichip.com

This document is subject to technical changes without prior notice.

The team of profichip GmbH is developing industrial communication and control ASICs since 1998. Besides the ASICs for PLC-systems' internal communication, the first Profibus Slave Controller VPC3+ was released in 1999. After this successful launch, profichip extended the range of compatible Profibus Slave ASICs by the Lean Slave VPCLS in 2000. Since then, profichip continuously improves available Profibus features in their ASICs. Another evidence for the innovative power of profichip was the realization of the Speed7 PLC7000 - the first High Performance PLC in silicon. Programmable in Step7®* language, Speed7 marks a substantial progress in the evolution of PLC.

profichip's philosophy exceeds ordinary developing and distribution of ASICs by translating visions into silicon solutions for customer requirements. profichip creates the missing link. The result is automation in silicon.

*= SIEMENS

profichip GmbH
Einsteinstr. 6
D-91074 Herzogenaurach
Germany
Tel.: +49 9132 744 200
Fax.: +49 9132 744 204
E-Mail: info@profichip.com
www.profichip.com