VPCLS2

PROFIBUS-DP Lean Slave ASIC
PA002005

- Protocol PROFIBUS-DP
- Asynchronous interface according to PROFIBUS-DP
- Maximum data transfer rate 12Mbit/s
- Automatic recognition of data transfer rate
- 40Bit I/O, 1 - 3Byte configurable as diagnostic inputs
- External shift register or EEPRom for
  ID-number and station address
- Supply voltage 5V
- Package PQFP80 (RoHS compliant)

VPC3+C

PROFIBUS-DP Slave Controller ASIC
PALF2008

- Pin, function and software compatible with SPC3 from Siemens
- Supporting PROFIBUS-DP-V0, DP-V1 and DP-V2 protocol
- 4KByte communication RAM
- Optional 5V or 3.3V supply voltage, 5V tolerant inputs
- Low power consumption
- PNO certified customer applications
- Package PQFP44 (RoHS compliant)

MPI12x

Multi Point Interface Controller
PA002006

- MPI communication up to 12Mbit/s
- 4kByte integrated SRAM
- Configurable 8-bit µController interface
- PROFIBUS-DP slave core (VPC3+C inkcl. ClockSync)
- 3.3V single supply voltage, 5V tolerant inputs
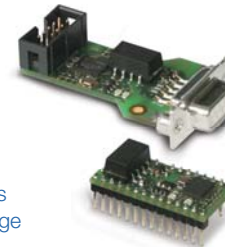- Package PQFP44 (RoHS compliant)

VPC3+S

**PROFIBUS-DP Slave Controller
with serial Interface**
PALF2009

- SPI, IIC, parallel-Interface
- BGA 48pin Package 6x8mm
- 4kByte communication RAM
- function and software compatible to
  VPC3+C and SPC3 from Siemens
- Supporting PROFIBUS-DP-V0,
  DP-V1 and DP-V2 protocol
- HW - PLL für DP-V2 - ISOM
- Ultra Low Power, Vcc 3.3V
- Software stack

proficonn

PROFIBUS-DP Slave Interface Modules
PA003140/PA003141

- SPI interface (up to 6 MBit/s)
- Isolated RS485 Interface up to 12 MBit/s
- Status LEDs for Power and DataExchange
- Vcc 3.3V
- Supporting PROFIBUS-DP-V0, DP-V1 and DP-V2
- 4kB communication RAM
- Software stack

proficonn-DSUB
- With 9-pin DSUB-connector for direct enclosure mounting
- Flat cable connector for SPI communication and power supply
- Dimensions: 58 x 31 x 16 mm

proficonn-DIP28
- 28 pin Dual-Inline-Package format
- for mounting on PCB via standard IC socket
- Dimensions: 36 x 18 x 10 mm

SODIMM-PLC 7001

**Embedded PLC module
for STEP7 from Siemens**

- 16 digital inputs (with alarms)
- 16 digital outputs
- up to 512kByte PLC user memory
- 48k instructions / ms
- Ethernet interface
- MPI / PROFIBUS - Slave
- Serial interface
- Timer & Counter integrated
- supply voltage 5V
- 2W Power consumption

Overview Fieldbus ASICs

Contact us!

Type	VPCLS2 Lean Slave	VPC3+C Slave	VPC3+S Slave	MPI12x Multi
Protocol				
PB-DP	■	■	■	■
PB-DP-V1		■	■	■
PB-DP-V2/ISOM		■	■	■
PB-DP-V2/DXB		■	■	■
PB-DP-V2/CLKS		■	■	■
MPI				■
Special Function				PB-Monitor
COM - Interface				
PB-UART, 12MBit/s	■	■	■	■
System - Interface				
8-bit µController Interface		■	■	■
Serial µC Interface			■	
DP-RAM		4kByte	4kByte	4kByte
I/Os	32 + 8			
Power supply				
5V single supply	■	■		
3.3V single supply		■	■	■
5V tolerant inputs	■	■		■
Compatible				
Pin compatible to	LSPM2*	SPC3*		SPC2*/ SPC3*
Package	PQFP80	PQFP44	BGA48	PQFP44

ISOM   ISOchron Mode
DXB   DataeXchange Broadcast
CKS   ClocKSynchronisation

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 from Siemens language, Speed7 marks a substantial progress in the evolution of PLC.

profichip's philosophy exceeds the 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.

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Fieldbus ASICs