

HIGH SPEED ASICS DESIGNED FOR FUTURE

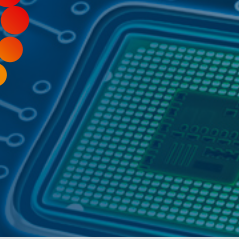


Professional High-Speed PLC for STEP[®]7 from Siemens





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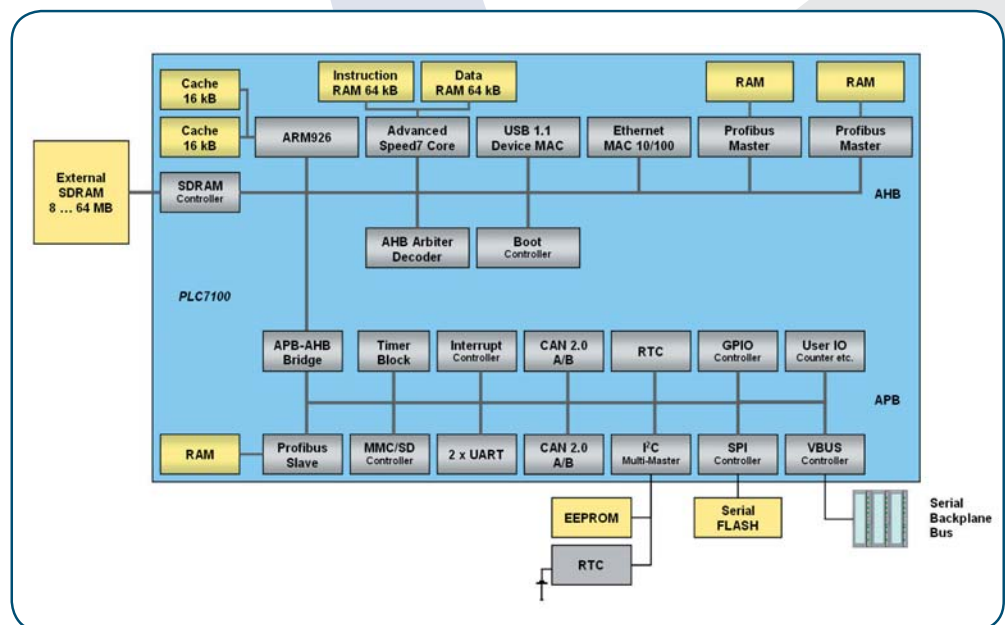


SPEED7 - HIGHSPEED FOR STEP®7 FROM SIEMENS

PLC 7100 - SPEED7 Single Chip for compact PLC's



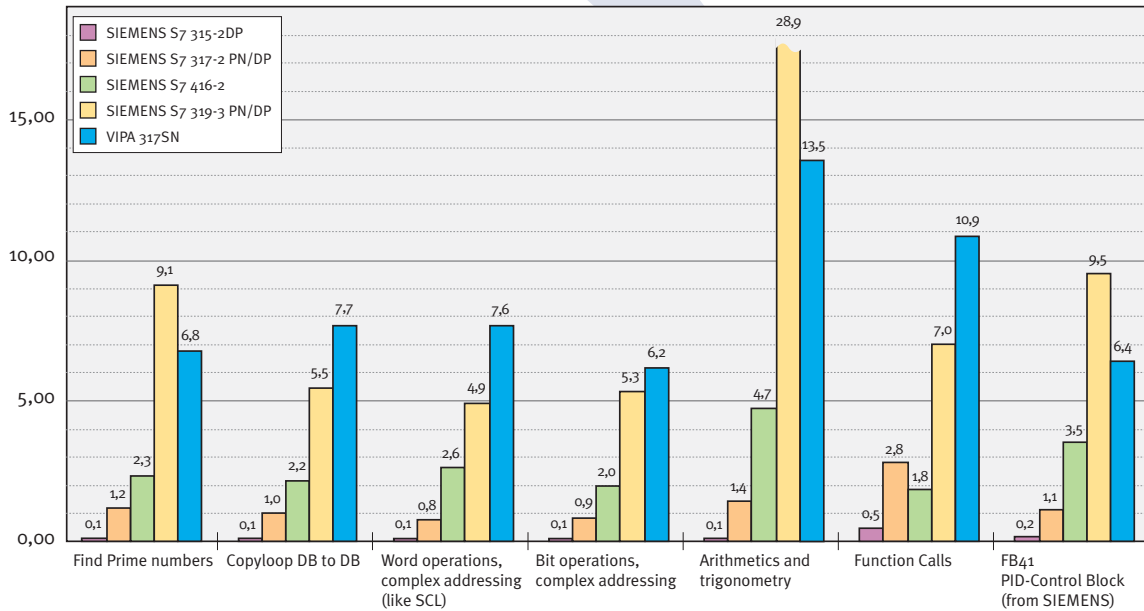
- Unique single-chip solution for micro to medium size PLCs
- Supported native code: STEP®7*
- Advanced Speed7 core technology (typ. 20 ns / command)
- Integrated PLC memory up to 128 kB
- ARM926 processor platform with 16 kB + 16 kB caches
- Communication interfaces:
 - PROFIBUS master / MPI (2x)
 - PROFIBUS slave
 - CAN 2.0 A/B (2x)
 - UART, I2C, SPI
 - Ethernet 10/100
 - USB Device
- Counter, SSI, PWM, high-speed IOs
- Low power management
- -40 to +85°C (185°F) ambient temperature



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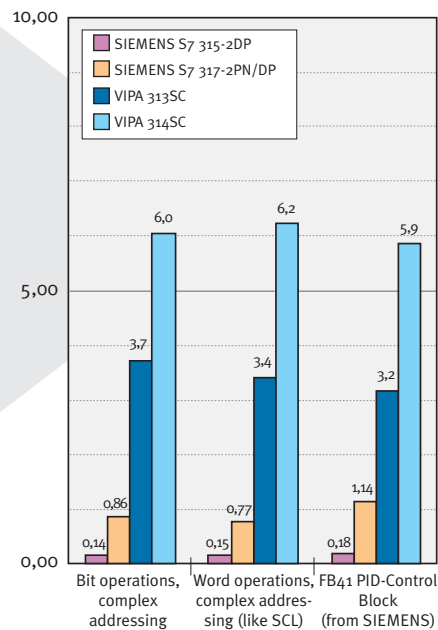
Relative CPU-Performance (V2.01) compared to SIEMENS S7-318-2DP

(pure user code, no SFCs, no PAX, no PEX)



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SPEED7 - HIGHSPEED FOR STEP®7 FROM SIEMENS

CPU	PLC 7001	PLC 7100	PLC 7200
PLC Core	PLC 7000	PLC 7001	PLC 7001
PLC Assembler Code	MC7	MC7+	MC7+
Int. PLC Memory	-	32 kByte	256 kByte
Expandable	up to 8MB	no	yes
System frequency	48/96 MHz	48 MHz	48/96/192 MHz
Int. Cycle Time	20/10 nsec.	20 nsec.	10 nsec.
Co CPU	external	ARM 926EJ	ARM 926EJ
SD-RAM external	4 MByte x 32 Bit	4 MByte x 16 Bit	4 MByte x 32 Bit
Flash-ROM external	1 x 4 MByte	1 x 8 MByte	1 x 8 MByte
System-Interface			
Extension	DPR Interface	-	DPR Interface
On-Board I/Os	32 / 24	32 / 24	32 / 24
Alarm	16	16	■
Counter	4	4	■
SSI In/Out-Master	1/1	1/1	■
PWM	4	4	■
GP I/Os	-	10	20
Test	external	JTAG	JTAG/ETM
V-Bus ser. I/O-Bus	■	■	■
I ² C 100k/s and 400k/s	-	■	■
SPI, Number of CS	-	2	4
Ethernet Bus Interface			
Ethernet 10/100	-	2 x	2 x
ProfinET RT	-	■	■
EtherCAT	-	■	■
Profibus			
Master, 12 MBit/s	over DPR Interface	1 x	2 x
MPI, 12 MBit/s	2 x ¹⁾	1 x	1 x
Slave, 12 MBit/s	2 x ¹⁾	- / 1 x	1 x
Interface			
CAN, 1 MBit/s	-	2 x	2 x
Standard Serial	2 x ¹⁾	1 x	2 x
High Speed Serial	2 x ¹⁾	-	1 x
USB 1.1 Device	-	■	■
SD / MMC	-	■	■
PLC System Counter and Timer			
Counter	512	2048	2048
Timer 10 msec.	512	2048	2048
HR-Timer 1µsec.	■	■	■
IEC Timer	max	max	max
RTC no Batt backup	■	■	■
Power Supply			
Core Supply	1,8 V	1,5 V	1,5 V
I/O	3,3 V	3,3 V	3,3 V
Power	1,2 Watt	1,2 Watt	1,6 Watt
Temperature	- 25°C - + 85°C	- 25°C - + 85°C	- 25°C - + 85°C
General			
Package	BGA452	BGA256	BGA676
Delivery and Samples	Q 4/06	Q 4/07	Q 4/07
Type of PLC Application	General PLC	µPLC	mini-medium PLC

1) a total of 2 interfaces with 4 exclusive options each



profichip GmbH
Einsteinstr. 6
D-91074 Herzogenaurach
Tel.: +49.9132.744.120
Fax.: +49.9132.744.204
E-Mail: sales@profichip.com
www.profichip.com

April 2007