



FlexSwitch 1000BASE-T1

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BENEFITS

- 7 x 100/1000BASE-T1 ports
- 2 x SFP+ ports
- Marvell 88Q6113 Switch Chip
- Fully compliant with IEEE802.3
- Supply voltage: 8 to 48 V DC
- IP20
- Harting T1 connectors
- Temperature range -40°C to +85°C
- Integrated RTC (Real Time Clock)
- IEEE1588 PTP Master is possible

FLEXSWITCH 1000BASE-T1

Additionally the switch has two SFP+ ports. One for a 1000BASE-T SFP+ module and one for a 10GBASE-T SFP+ module. The switch is based on the 1000BASE-T1 Marvell Switch Chips 88Q6113. The switch is configured using proprietary software provided by Marvell.

SOFTWARE SUPPORT

- Configuration Software for Windows from Marvell

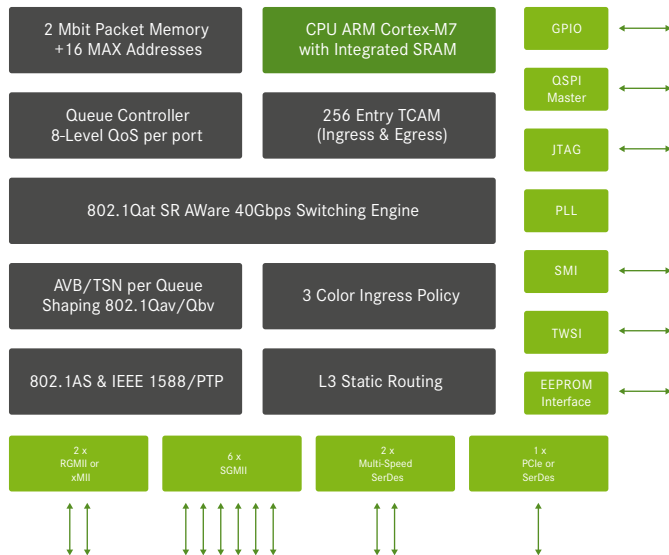
FlexSwitch 1000BASE-T1

TECHNICAL FEATURES

This switch includes a high-performance ARM® Cortex M7 CPU with dedicated on-chip memory to support AVB protocols such as Precision Time Protocol (PTP) and security firewall to protect from external malicious attacks. The switch employs advanced routing engine to support gigabit routing of the incoming packets without the CPU intervention. It offers highest level of security with deep packet inspection (DPI) techniques, Denial of Service (DoS) engine and Trusted Boot functionality to secure the vehicle networks.

- 7 x 100/1000BASE-T1 ports
- One separate connector per port
- 100BASE-T1 or 1000BASE-T1 mode on every connector selectable
- 2 x SFP+ ports for SFP+ extensions
- 1000BASE-T SFP+ transceiver included
- 10GBASE-T SFP+ transceiver available
- Fully IEEE802.3 compliant
- Integrated ARM Cortex A7 CPU

BLOCK DIAGRAM



HARDWARE

Electrical characteristics

Supply voltage	Min.	Typ.	Max.
Operating	+8.0 V	-	+48.0 V
Absolute maximum (non-operating)	-60.0 V	-	+60.0 V
Supply current - operating	typ: 800 mA		

Physical characteristics

Connectors	1 x Binder 2pol. 2 x SFP+ 7 x Harting T1
Weight approx.	145 g
Dimensions approx. L x W x H	166 x 124 x 36 mm

Environmental Conditions

Temperature	Operating:	-40°C to +85°C
	Non-operating:	-40°C to +85°C
	Storage:	-40°C to +85°C
Relative Humidity	0% to 90% r. H., non-condensing	

SCOPE OF DELIVERY

- FlexSwitch 1000BASE-T1
- 1000BASE-T1 SFP+ transceiver
- Usermanual

ORDER INFORMATION FLEXSWITCH1000BASE-T1

Product	Description	Order number
FlexSwitch-1000BASE-T1	7 port 1000BASE-T1 switch	3-V1030A01

ORDER INFORMATION ASSECCORIES

Product	Description	Order number
SPE bus cable (2m)	2 pole SPE male to 2 pole SPE male	10020364
SPE bus cable (5m)	2 pole SPE male to 2 pole SPE male	10020363
SPE crimp tool	SPE Crimp tool	10020365
SPE male connector	SPE male connector SL-C IP20	10020366
Binder SPE bus cable (2,5 m)	8 pole Binder male to 2 pole SPEm	3-00343E01

10GBASE-T SFP+ copper module	10GBASE-T SFP+ copper module	please ask
10GBASE-T SFP+ optical module	10GBASE-T SFP+ optical module	please ask
1000BASE-T SFP+ copper module	1000BASE-TX SFP+ copper module	please ask