



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)
- 802.1 AS PTP support for master/slave and transparent clock

FLEXSWITCH 1000BASE-T1

Additionally the switch has two SFP+ ports. One for a 1GBASE-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

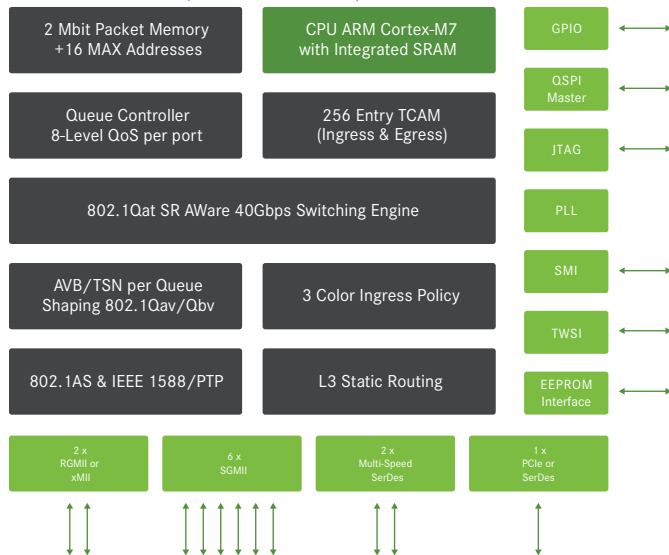
FlexSwitch 1000BASE-T1

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 available
- 10GBASE-T SFP+ transceiver available
- Fully IEEE802.3 compliant
- Integrated ARM® Cortex M7 CPU

BLOCK DIAGRAM (Marvell 88Q6113)



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: 670 mA		

Physical characteristics

Connectors	1 x Binder 2pol. 2 x SFP+ 7 x Harting T1
Weight approx.	625 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
- Power cable

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/D-Sub bus cable (2,5 m)	2 pole SPE male to 9 pin D-Sub female connector	3-00343G01
10GBASE-T SFP+ copper module	10GBASE-T SFP+ copper module	10020420
10GBASE-T SFP+ optical module	10GBASE-T SFP+ optical module	10020432
1GBASE-T SFP+ copper module	1GBASE-T SFP+ copper module	10020431