



**FL3X**

# Switch 1000/10GBASE-T1

H-MTD

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## BENEFITS

- 7 x 100/1000BASE-T1 with H-MTD connector
- 1 x MultiGig Port up to 10GBASE-T1 with H-MTD connector
- 1 x SFP+ port
- Marvell 88Q6113 Switch Chip
- Fully compliant with IEEE802.3
- 802.1 AS PTP support for master/slave and transparent clock
- Supply voltage: 8 to 48 V DC
- Temperature range -40°C to +70°C
- Integrated RTC (Real Time Clock)

## FL3X SWITCH 1000/10GBASE-T1

The Switch provides 7 x 100/1000BASE-T1 ports and one 2.5G/5G/10GBASE-T1 port. Additionally one SFP+ port up to 10G. The switch is based on the 1000BASE-T1 Marvell Switch Chips 88Q6113, it can easily be configured by using proprietary software provided by Marvell.

## SOFTWARE SUPPORT

- Configuration Software for Windows and Linux from Marvell

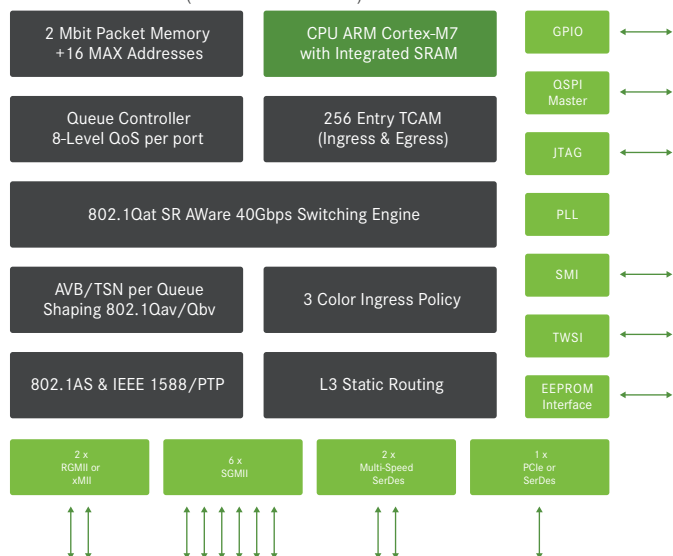
# FL3X Switch 1000/10GBASE-T1

## 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
- 1 x SFP+ port
- 1 x 2.5G/5G/10GBASE-T1 port
- 1000BASE-T1 SFP transceiver available
- 10GBASE-T SFP+ transceiver available
- 1000BASE-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. 1 x SFP+ 8 x H-MTD®
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

- FL3X Switch 1000/10GBASE-T1
- Power cable

## ORDER INFORMATION FL3X SWITCH 1000BASE-T1 / 10GBASE-T1

Product	Description	Order number
FL3X Switch 1000/10GBASE-T1 H-MTD	8 port 1000BASE-T1/10GBASE-T1 switch	3-V1170A01

## ORDER INFORMATION ACCESSORIES

Product	Description	Order number
FL3X SFP 1000BASE-T1	SFP transceiver for 100BASE-T1 and 1000BASE-T1	3-01110A01
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