



# FL3X Switch 1000BASE-T1

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## BENEFITS

- 7 x 100/1000BASE-T1 ports
- 2 x SFP+ ports
- Infineon 88Q6113 Switch Chip
- Fully compliant with IEEE802.3
- 802.1 AS PTP support for master/slave and transparent clock
- Supply voltage: 8 to 48V DC
- IP20
- Harting T1 Rev. 2 or H-MTD connectors
- Temperature range -40°C to +85°C
- Integrated RTC (Real Time Clock)

## FL3X SWITCH 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 Infineon Switch Chips 88Q6113. The switch is configured using proprietary software provided by Infineon.

## SOFTWARE SUPPORT

- Configuration Software for Windows and Linux from Infineon

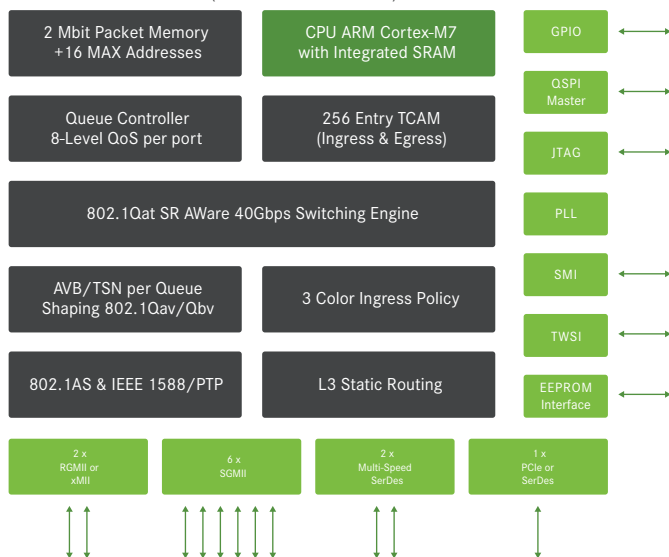
# FL3X Switch 1000BASE-T1

## 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 (Infineon 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 Rev. 2
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 1000BASE-T1
- Power cable

## ORDER INFORMATION FL3X SWITCH 1000BASE-T1

Product	Description	Order number
FL3X Switch 1000BASE-T1 Rev. 2	7 port 1000BASE-T1 switch with Harting T1 connectors	3-VI030A02
FL3X Switch 1000BASE-T1 H	7 port 1000BASE-T1 switch with H-MTD connectors	3-P1030E01

## ORDER INFORMATION ACCESSORIES

Product	Description	Order number
BusCable 200 2SPE2m 2SPE2m OABR	2 pole SPE male to 2 pole SPE male, 2 m	3-00343H02
BusCable 500 2SPE2m 2SPE2m OABR	2 pole SPE male to 2 pole SPE male, 5 m	3-00343I02
BusCable 250 9SUBDf 2SPE2m OABR	2 pole SPE male to 9 pin D-Sub female connector, 2.5 m	3-00343G02
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
FL3X SFP 1000BASE-T1	1000BASE-T SFP copper module	3-01110A01