

## Preliminary Product Datasheet

### High Performance Terminal Unit – Fusion 300

#### General Description

TTControl **Fusion** is a terminal unit with a high-performance multicore processor, offering rich 1000BASE-T1, 100BASE-T1 connectivity.

#### Specifications

Parameter		Unit
ECU Dimensions	244 x 198 x 45	mm
Dimensions for minimum connector release clearance	TBD	mm
Weight	TBD	g
Connector	1x MOLEX 48-Pin Automotive Connector 4x H-MTD *BASE-T1 2x HSD USB	
Operating Temperature	-40 to 70	°C
Operating Altitude	0 to 4000	m
Supply Voltage	9 to 32	V
Peak Supply Voltage	40	V <sub>max</sub>
Supply Current at 12/24V without load	TBD	mA <sub>max</sub>
Standby Current	<1	mA <sub>max</sub>
Total Load Current	TBD	A <sub>max</sub>

#### Standards

CE-Mark	2014/30/EU 2006/42/EC
E-Mark	ECE-R10 Rev.4
EMC	EN 13309 ISO 14982 ISO 13766 EN 55035 EN 61131-2
ESD	ISO 10605
Electrical	ISO 16750-2 ISO 7637-2,-3
Ingress Protection	IP67 IP6K9K
Climatic	ISO 16750-4
Mechanical	ISO 16750-3

#### Features

- NXP i.MX8 application processor (QuadPlus)
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor

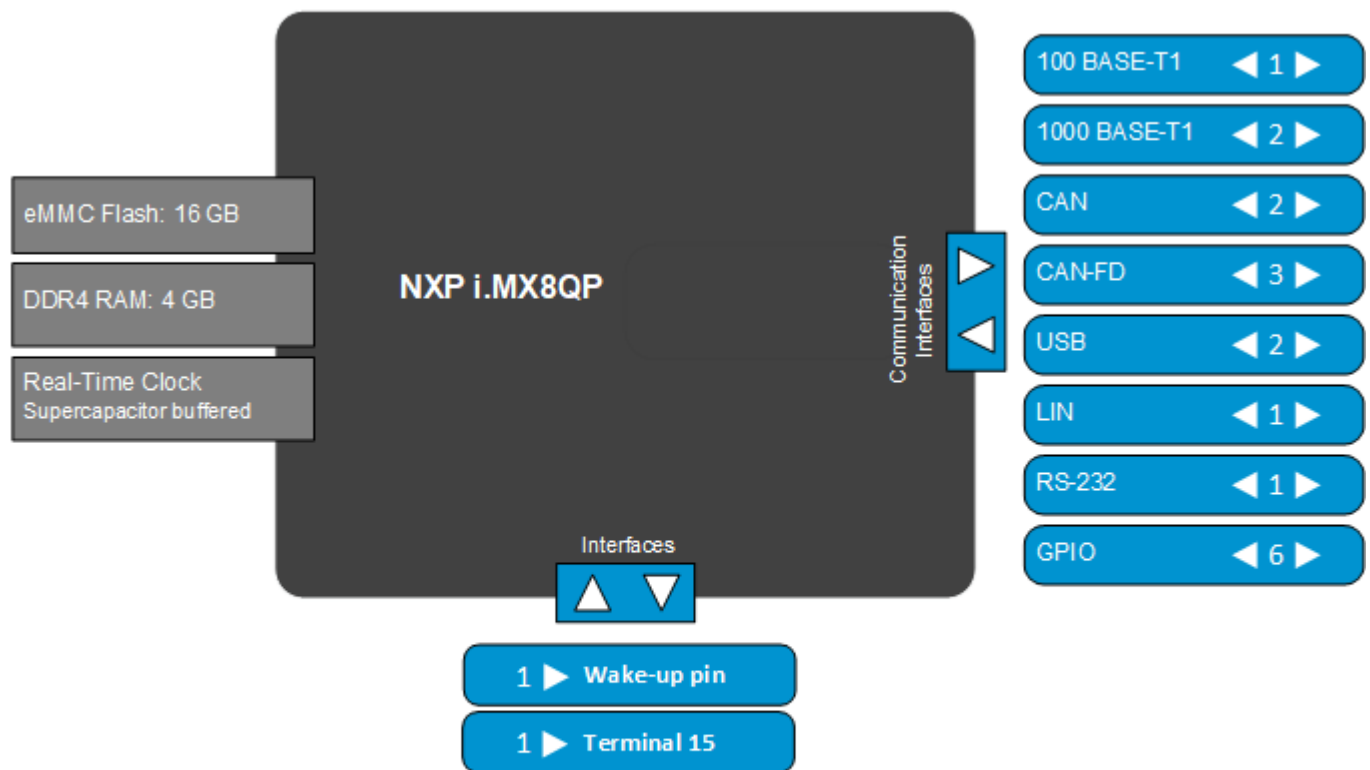
#### Interfaces

- 3x CAN FD, 2x Standard CAN (1x ISOBUS compliant)
- 2x 100BASE-T1 + 1 x1000Base-T1
- 2x USB 2.0
- 1x RS232
- 1x K15 Input
- 1x Wake-up pin
- 6x GPIOs (2x HS DOUT and 4x DIN)

#### Software features

- Linux OS on Performance Host

## Block Diagram



## Housing and Connector

Aluminum baseplate with metal top

For further information, including price and availability, please contact [products@tcontrol.com](mailto:products@tcontrol.com)

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