

## Preliminary Product Datasheet

### High Performance Terminal Unit – Fusion 844 S

#### General Description

TTControl **Fusion** is a terminal unit with a high-performance multicore processor, able to drive multiple remote displays and offering rich 1000BASE-T1, 100BASE-T1, 100B-TX connectivity.

Fusion Safety variant when connected to TTControl Vision X monitors support the safe display of camera streams, safe display of tell-tales, safe touch input as well as safe operation of the digital I/Os

#### Specifications

Parameter		Unit
ECU Dimensions	244 x 198 x 45	mm
Dimensions for minimum connector release clearance	TBD	mm
Weight	TBD	g
Connector	4x HSD Display connectors 1x MOLEX 48-Pin Automotive Connector 8x H-MTD *BASE-T1 2x HSD 100BASE-TX 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

Functional safety	EN ISO 13849 PL b ISO 25119 AgPL b SRL2
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 (QuadMax)
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor

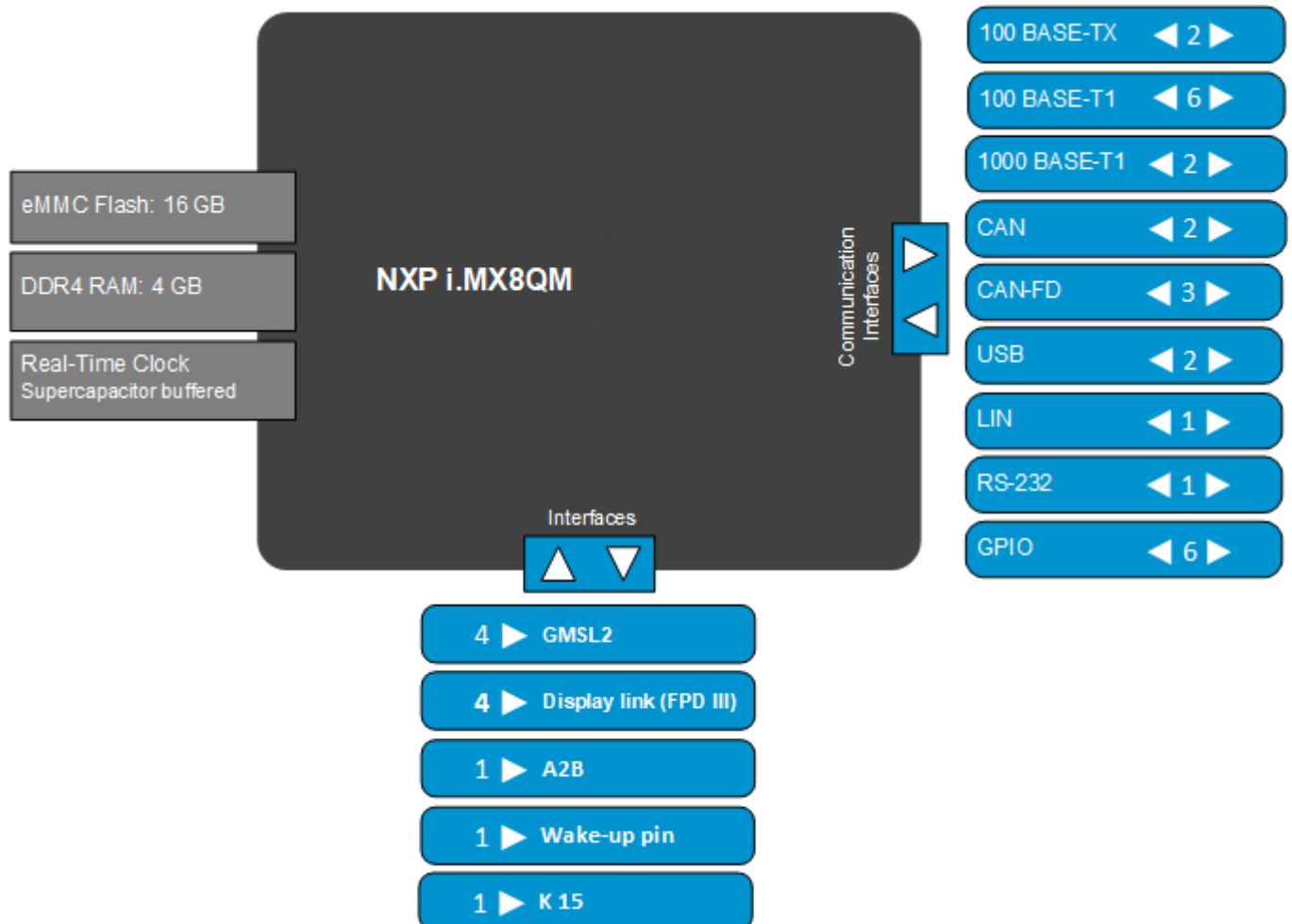
#### Interfaces

- 3x CAN FD, 2x Standard CAN (1x ISOBUS compliant)
- 6x 100BASE-T1 + 2 x1000Base-T1
- 2x 100BASE-TX
- 4x FPD Link III Display Interface
- 4x GMSL2
- A2B Master Interface
- 2x USB 2.0
- 1x RS232
- 1x LIN
- 1x K15 Input
- 1x Wake-up pin
- 6x GPIOs (2x HS DOUT and 4x DIN)

#### Software features

- Linux OS on Performance Host
- Bare-metal safety certified I/O library on real-time Arm M4 Core

## Block Diagram



## Housing and Connector

Aluminum baseplate with metal top

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

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