

Preliminary Product Datasheet

Multi-Purpose Computing Platform – Fusion 844AI

Description

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

The separation of the computing unit from the display functions allows for freedom in the deployment of application windows and flexibility in the number of displays and their position in the operator cabin.

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 _{max}
Supply Current at 12/24V without load	TBD	mA _{max}
Standby Current	<1	mA _{max}
Total Load Current	TBD	A _{max}
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 (QuadMax)
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor
- HAILO8 AI accelerator

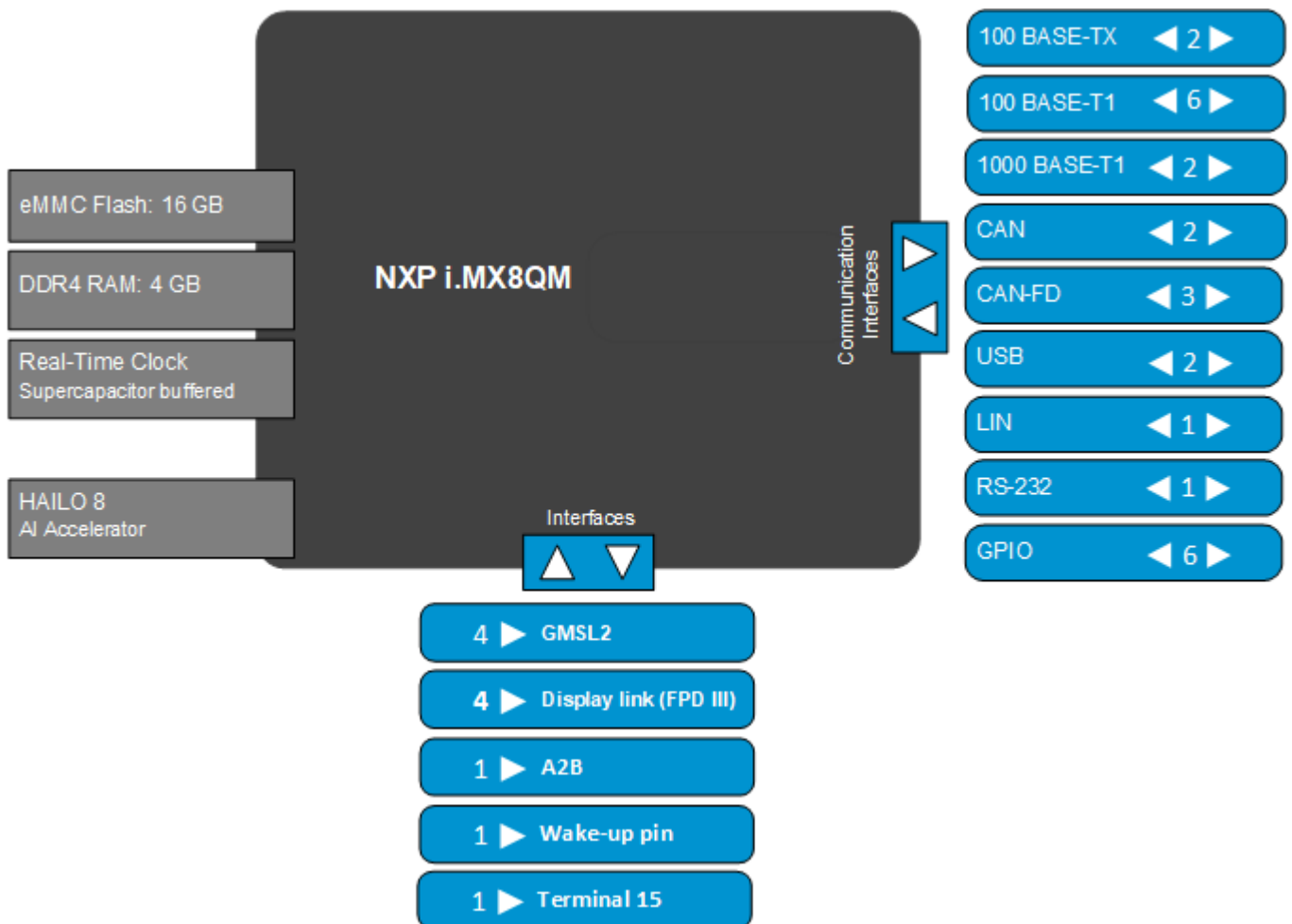
Interfaces

- 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 Terminal15 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@ttcontrol.com