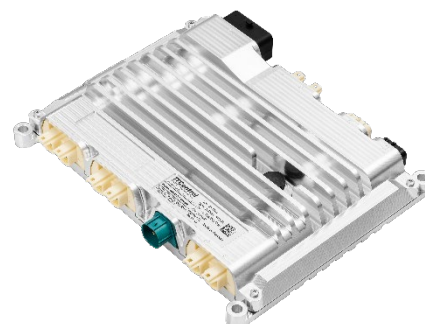


## Multi-Purpose Computing Platform – Fusion 844AI

### Description

Fusion is a computing platform with a high-performance multicore processor, which can drive multiple remote displays and offers rich 1000BASE-T1, 100BASE-T1 and 100BASE-TX connectivity.

The built-in Hailo-8 edge AI processor allows the execution of deep learning applications at full scale, delivering unparalleled accuracy and efficiency in data processing and analysis.



### Specifications

Parameter		Unit
ECU Dimensions	244 x 198 x 45	mm
Dimensions for minimum connector release clearance	294x314x45	mm
Weight	1890	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	680 / 360	mA <sub>max</sub>
Standby Current wakeup disabled at 12/24V	<1 / <1.5	mA <sub>max</sub>
Standby Current wakeup enabled at 12/24V	<6 / <6	mA <sub>max</sub>
Total Load Current	9.3	A <sub>max</sub>

### Standards

Cybersecurity	ISO 21434
CE-Mark	2014/30/EU 2006/42/EC 2011/65/EU
E-Mark	ECE-R10 Rev.6
EMC	ISO 14982 ISO 13766 EN 61131-2-8/-9/-10
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 QuadMax application processor
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor
- Hailo-8 AI accelerator

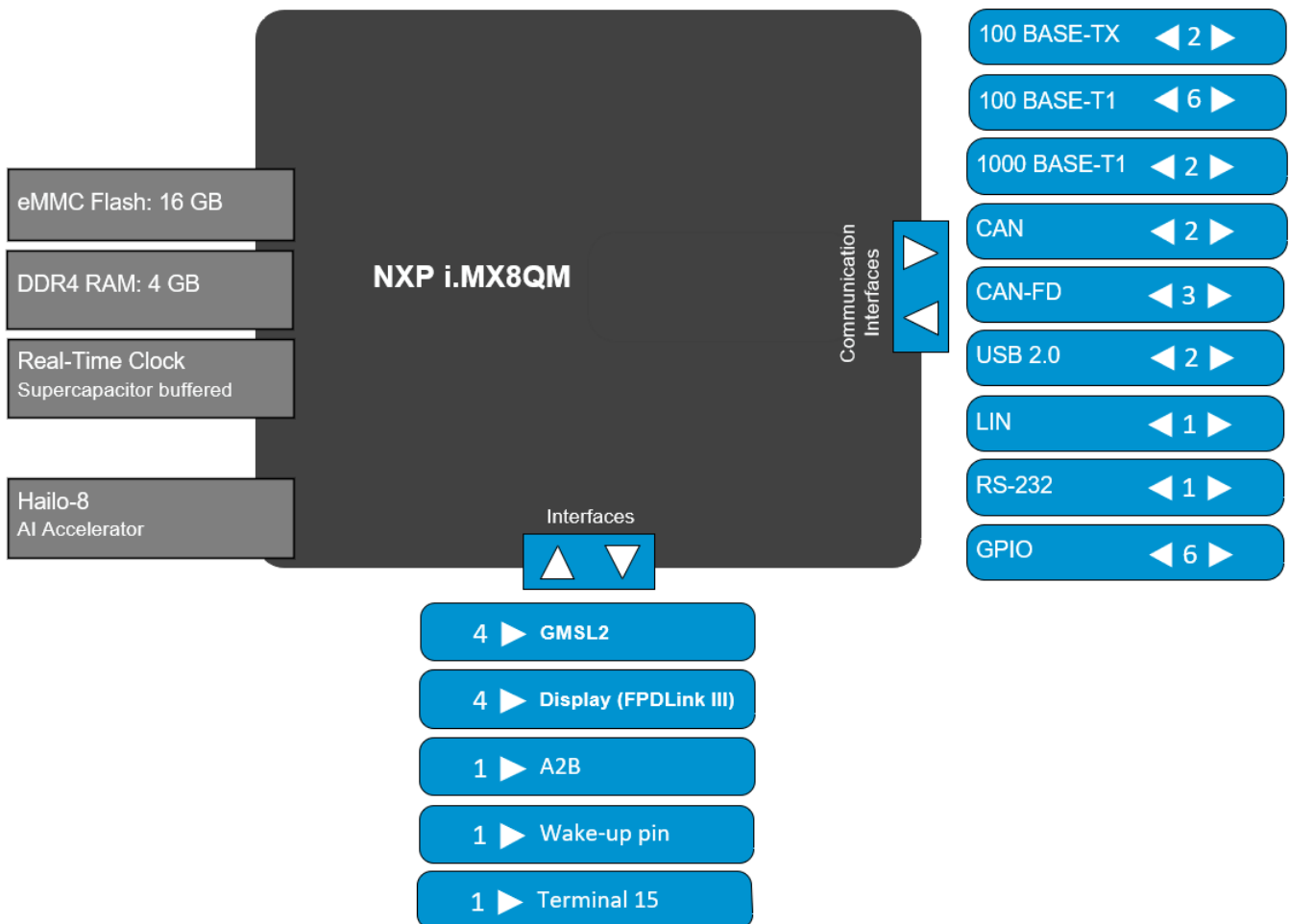
### Interfaces

- 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 Digital Camera Interface
- A2B Master Digital Audio Interface
- 2x USB 2.0
- 1x RS232
- 1x LIN
- 1x Terminal15 Input
- 1x Wake-up pin
- 6x GPIOs (2x High Side Digital Out and 4x Digital In)

### Software features

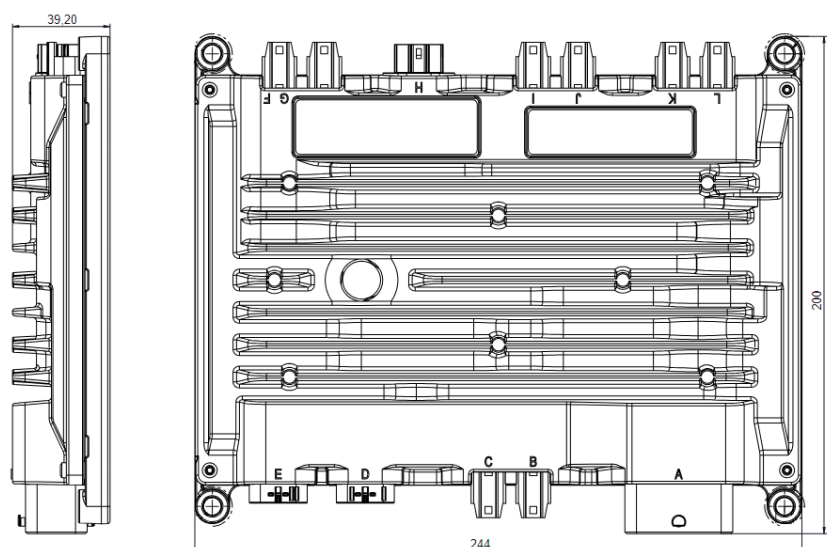
- Available with the software platform MATCH® by HYDAC Software.
- Linux Yocto OS on Performance Host

## Block Diagram



## Housing and Connector

Aluminum baseplate with metal top



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

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