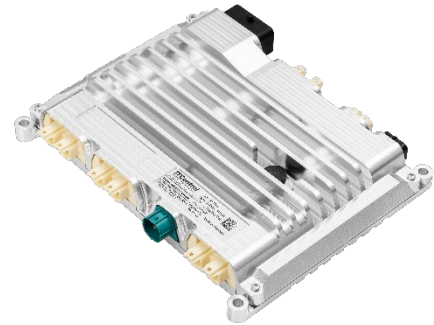


Multi-Purpose Computing Platform – Fusion 300

General Description

Fusion is a computing platform with a high-performance multicore processor, which offers rich 1000BASE-T1 and 100BASE-T1 connectivity as well as CAN support, including ISOBUS.

Protected by a compact and robust housing, the device was especially developed for vehicles and machines used in a rugged operating environment.



Specifications

Parameter		Unit
ECU Dimensions	244 x 198 x 45	mm
Dimensions for minimum connector release clearance	294x314x45	mm
Weight	1772	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 _{max}
Supply Current at 12/24V without load	<700 / <400	mA _{max}
Standby Current wakeup disabled at 12/24V	<2.5 / <2.5	mA _{max}
Standby Current wakeup enabled at 12/24V	<6 / <7.5	mA _{max}
Total Load Current	9.3	A _{max}

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 QuadPlus application processor
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor

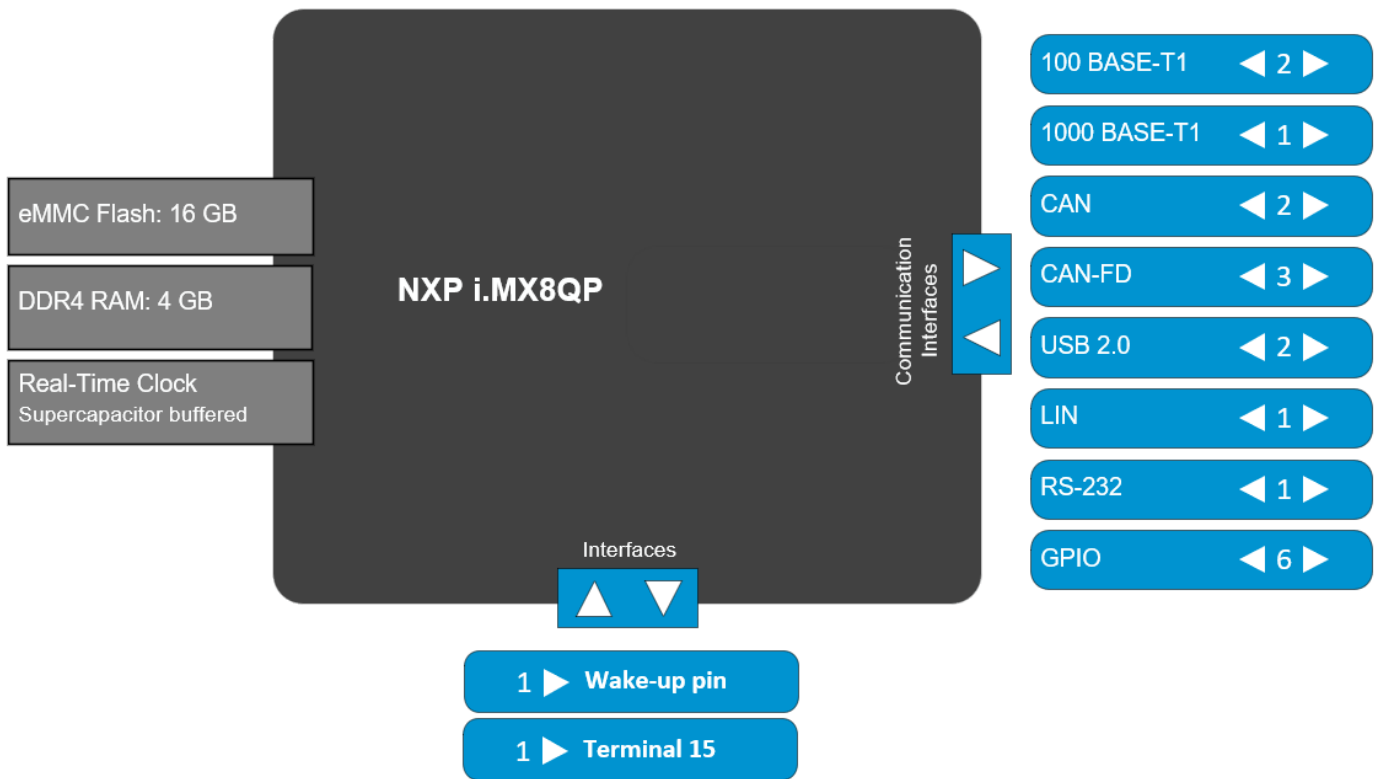
Interfaces

- 3x CAN FD, 2x Standard CAN (1x ISOBUS compliant)
- 2x 100BASE-T1 + 1 x1000Base-T1
- 2x USB 2.0
- 1x RS232
- 1x Terminal15 Input
- 1x Wake-up pin
- 6x GPIOs (2x High Side Digital Out and 4x Digital In)

Software features

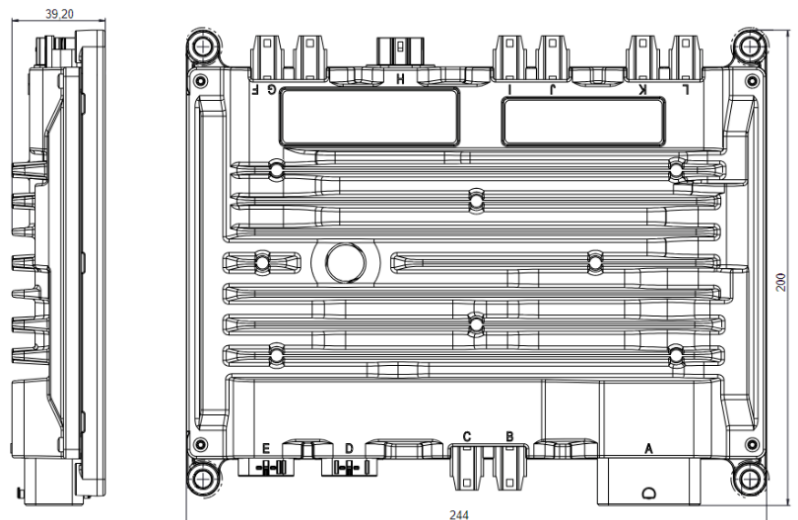
- Available with the software platform MATCH® by HYDAC Software.
- Linux Yocto OS on Performance Host

Block Diagram



Housing and Connector

Aluminum baseplate with metal top



For further information, including price and availability, please contact products@ttcontrol.com

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