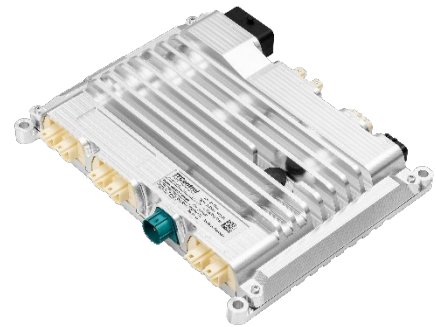


High Performance Terminal Unit – Fusion 622

General 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 separation of 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 machine cabin.



Specifications

Parameter		Unit
ECU Dimensions	244 x 198 x 45	mm
Dimensions for minimum connector release clearance	294x314x45	mm
Weight	1833	g
Connector	2x HSD Display connectors 1x MOLEX 48-Pin Automotive Connector 6x 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	680 / 360	mA _{max}
Standby Current wakeup disabled at 12/24V	<1 / <1	mA _{max}
Standby Current wakeup enabled at 12/24V	<2 / <4	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 QuadMax application processor
- RAM 4GB
- FLASH 16GB
- RTC buffered by supercapacitor

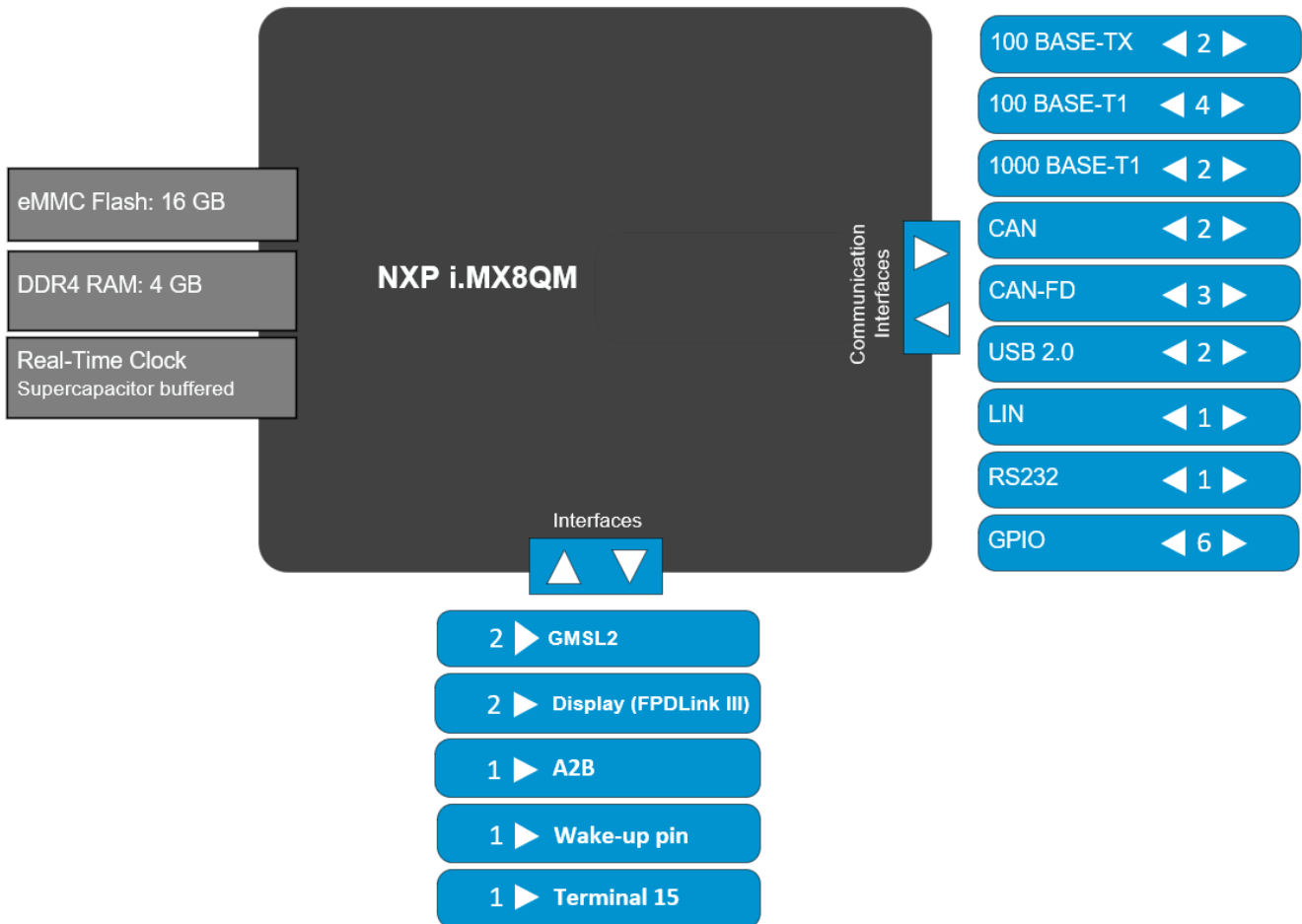
Interfaces

- 3x CAN FD, 2x Standard CAN (1x ISOBUS compliant)
- 4x 100BASE-T1 + 2 x1000Base-T1
- 2x 100BASE-TX
- 2x FPD Link III Display Interface
- 2x GMSL2 Digital Camera Interface
- 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

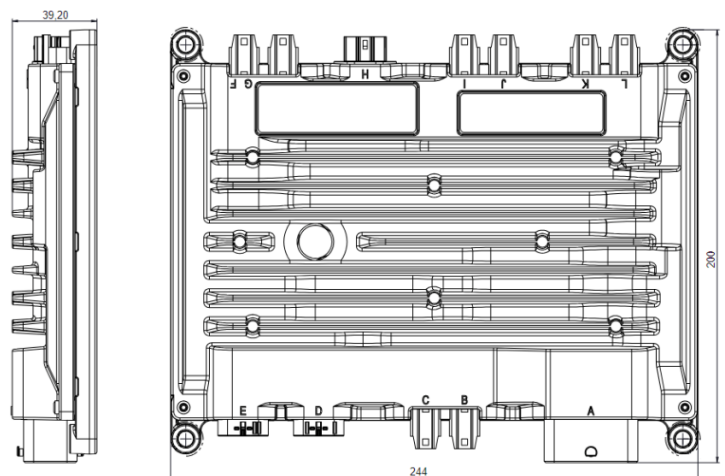
- Linux Yocto OS on Performance Host

Block Diagram



Housing and Connector

Aluminum baseplate with metal top



Subject to changes and corrections. Fusion 622 is a product name of TTControl GmbH. CODESYS is a trademark of 3S Smart Software Solutions GmbH. CANopen is a trademark of CAN in Automation (CiA). All other trademarks are the property of their respective holders. To the extent possible under applicable law TTControl hereby disclaims any and all liability for the content and use of this product flyer.

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