

EDM2-ELF



Main Features

- Develop your mobile embedded device quickly with the Elf EDM Carrier Board which features a variety of sensors and interconnects.
- HDMI and LVDS display interfaces.
- Communication by dual PCI Express (with SIM cardslots).
- Dual CAN Bus, Dual UART, USB and 8 GPIO's for Industrial control.



Power	LAN	LVDS	HDMI	PCIe x4	SATA 2 nd	LPC	HDA	SPDIF	CAN x2	SD	SPI x2	UART x2	Buttons + GPIO	RSVD
		LVDS	HDMI	PCIe x2	SATA 1 st	USB OTG	USB	I ² S 1 st			I ² C x2	RTC		

Specifications

Core System

Board-to-Board Connector EDM connector (314-pin MXM3)
Compatible SOM EDM Type 2

Expansion Interfaces

Expansion Slots 2x mini-PCIe with SIM cardslot

Internal Headers

Internal Display 1x dual channel LVDS (expansion header)
Expansion Headers CAN
GPIO
I²C
I²S
RS232
SATA
SPI

External Connectors

External Display 1x HDMI
Audio Connectors 1x 3.5mm jack Microphone
1x 3.5mm jack Stereo Audio in
1x 3.5mm jack Stereo Audio out
S/PDIF (optical)
Network 1x RJ45
USB 1x USB 2.0 OTG
2x USB 2.0 Host
Serial 1x RS-232/422/485
Buttons 1x Reset
SD Cardslot 1x microSD cardslot

Audio

Audio Codec NXP SGTL5000
TI TLV320AIC23B
Audio Interface I²S (2 channel)
Speaker Audio speaker connector (stereo)
(2W pre-amplified)

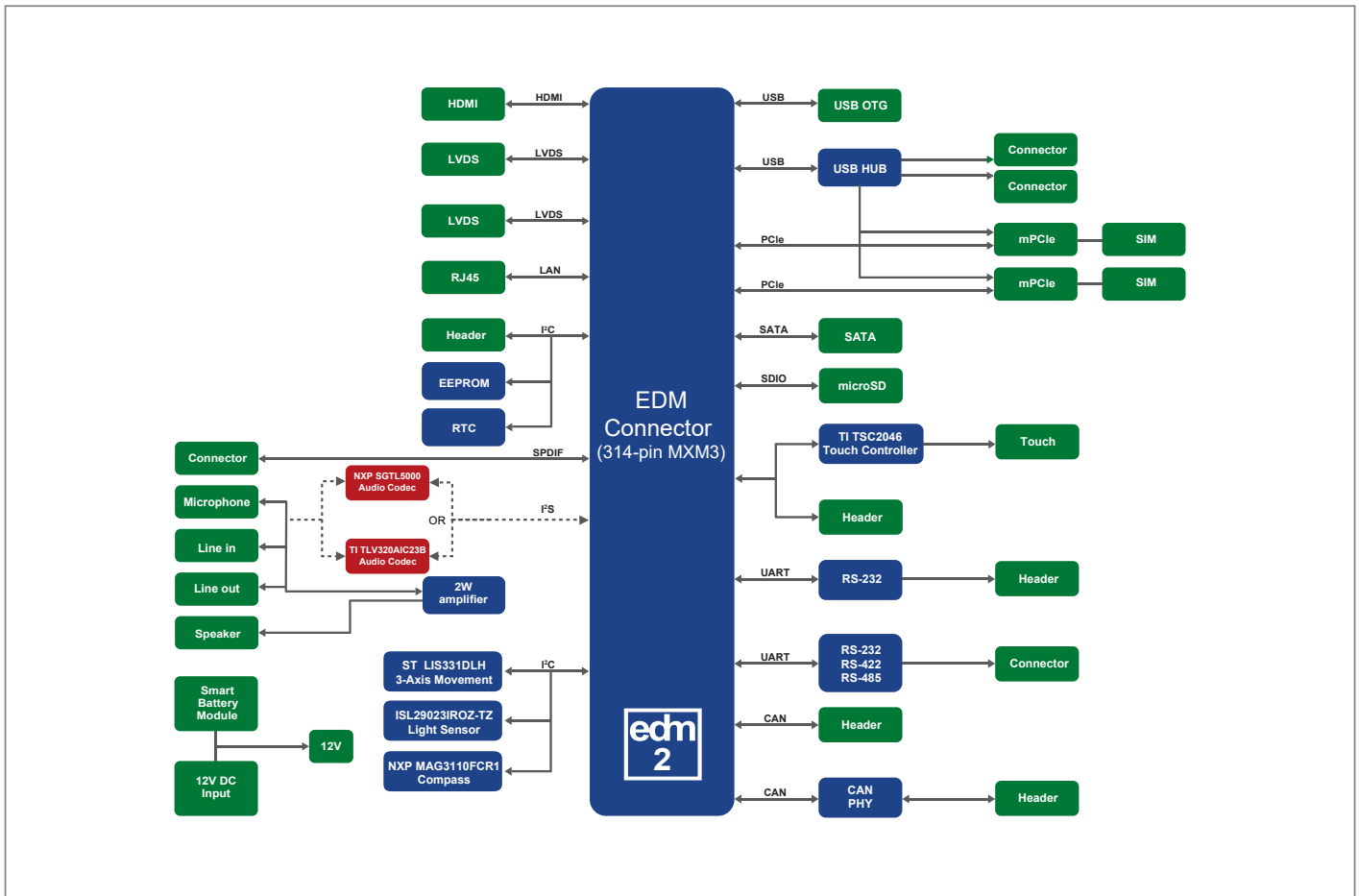
Sensors

3-Axis Movement STMicroelectronics LIS331DLH
Light Sensor Intersil ISL29023IROZ-TZ
Compass NXP MAG3110FCR1
RTC maxim integrated DS1337+
2-pin header battery connector

Power Specifications

Power Input 12V DC +/-5%
Power Connector 2-pin 5.08mm Terminal Block 2EHDRM-02P
Power Consumption Depending on Configuration

Block Diagram



Environmental and Mechanical

Dimensions	147 x 102 mm
Form Factor	3.5"
Weight	115 grams
Temperature	Commercial: 0° to +60° C
Relative Humidity	10 to 90 %
MTBF	>100 000 Hours
Shock	50G/25ms
Vibration	20G/0-600Hz
Certification	Compliant with CE / FCC / RoHS / REACH directives

Ordering Information

EDM2-ELF-xxxxx

	Code	Description
Startkit	-	Board Only
	START	Evaluation Kit

EDM2-ELF

ELF EDM Type 1 Carrier Board

EDM2-ELF

ELF EDM Type 1 Evaluation Board including cablekit and adaptor

* Feel free to contact us for customization requests.

Dimensions

(units in mm)

