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, TTL 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 5 VDC	LAN	LVDS	HDMI	PCle x4	SATA 2 nd	LPC	HDA	SPDIF	CANBus	us SD	SPI x2	UART x2	Buttons + GPIO	RSVD	
	LAN	LVDS	номі	PCle x2	SATA 1 st	USB OTG	USB Host	I ² S 1 st	x2			I ² C x2		RTC	

Specifications

Core System

System on Module EDM Type 2 compact form factor

Expansion

Expansion Slots 2x mini-PCle + SIM cardslot

(for 3G communication)

I/O Interfaces

Connector 1x SATA

1x micro SD cardslot (SDIO)

1x Gigabit LAN 2x USB 3.0 Host

1x micro USB 3.0 / 2.0 OTG 1x UART (RS-232/422/485)

Header 2x CAN Bus

1x UART (RS-232)

2x SPI 8x GPIO 2x I²C

Manufacturing pins

Video

Connector 1x HDMI

Audio

Codec Jumper selectable:

Freescale SGTL5000 (I²S), TI TLV320AIC23B (I²S)

2 channel LVDS 18/24 bit

Connector 1x 3.5 mm jack Stereo Audio in

1x 3.5 mm jack Stereo Audio out 1x 3.5 mm jack Microphone

S/PDIF

Speaker 2W amplified speaker connectors

Touch

Controller TSC2046 (4 wire by SPI)
Connector 4 wire touch panel

Sensors

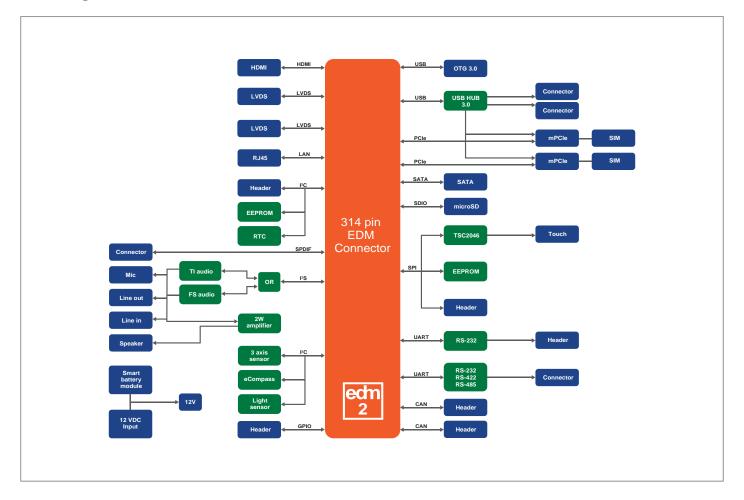
3-axis Movement ST Microelectronics LIS331DLH
Light Sensor Intersil ISL29023IROZ-T7
Compass Freescale MAG3110FCR1
Real Time Clock Maxim integrated DS1337+

Power Specifications

Input power 12 VDC

Battery Smart battery connector

Block Diagram



Environmental and Mechanical

Temperature Commercial: 0° to 60° C

Extended: -20° to 70° C

Industrial: -40° to 85° C

Humidity 10 to 90% Module Connector 314 pins MXM3 Form Factor 3.5" Form Factor Dimensions 147 x 102 mm (5¾ x 4 inch) MTBF >100,000 hours

Weight 115 grams Shock 50G / 25ms Vibration 20G / 0-600 Hz

Ordering Information

EDM2-ELF

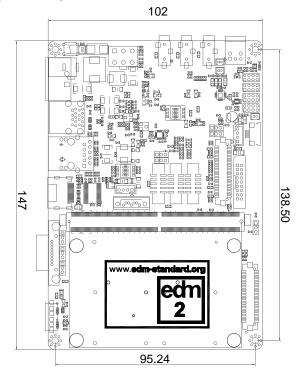
3.5 inch form factor Elf carrier board for EDM type 2 system-on-modules

EDM2-ELF-START

Elf EDM type 2 evaluation board including cablekit and adaptor

Dimensions

(units in mm)



2015-05. All specifications are subject to change without notice.

^{*} Feel free to contact us for custom tailored Carrier Board request for your projects.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TechNexion: