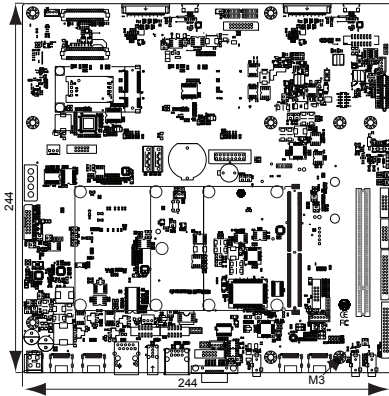


Wizard



The official EDM evaluation board brings you a rich variety of interfaces and options at your fingertips.

With all interfaces backed up with switches and easy to access test points you can bypass or disable any interface to quickly attach 3rd party chip solutions to validate their hardware and software integration compatibility.

System

System on module Compatible up to EDM Extended with backup battery

Interfaces

Connector

3 standard-USB hosts
1 USB device/ OTG
RJ-45 LAN connector
micro-SD card slot
10W amplified speaker
2x LVDS and touchpanel
TTL & touchpanel for 5" LCD
2x HDMI connectors
2x Displayport
MiniPCIe slot
SIM card for 3G module slot
keypad, GPIO
SPI, UART, I²C,
RS-232, RS-422/485

Header

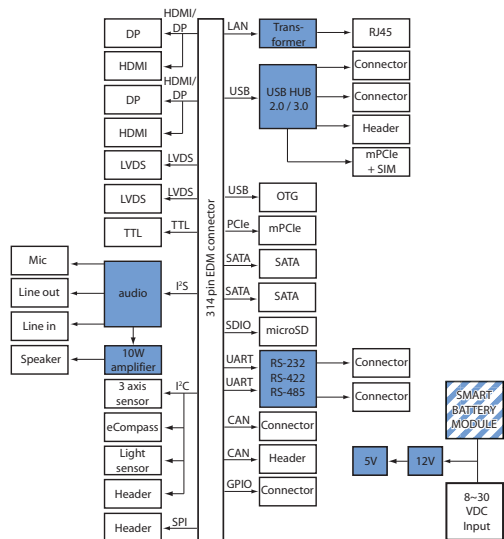
Power

Input power 8~30 VDC
or Smart Battery

Mechanical and Environmental

Temperature Commercial: 0° to 60° C
Humidity 10-90%
Dimensions 244 x 244 mm (mATX)
(9 7/8 x 9 7/8 inch)
Weight 650 grams
Shock 50G / 25ms
Vibration 20G / 0-600 Hz

Block Diagram



Order Information

Wizard EVM Development board for EDM modules

Development kits available



EDM Standard

The Concept

System on Modules (SoM's) provides a flexible solution to OEM's that require a modular computing solution but do not have the resources or volume to design a custom board. By choosing EDM modules customers are ensured that a whole spectrum of CPU architectures are covered ranging from low power efficient ARM Cortex-A9 CPU's to Intel ATOM based modules to Intel i7 multicore processor modules.

Custom Baseboard Design

Customers can design their own baseboard using the freely available schematics and leverage on the available software source code that comes standard with every EDM Module and therefore bringing a custom designed solution to market using a very short design cycle.

For customers that lack engineering staff TechNexion also offers custom engineered baseboard design and manufacturing services where our expertise as co-founder of the EDM standard will assist you to ensure your design is fully compatible and future upgrade proof while moving to next generation EDM modules.

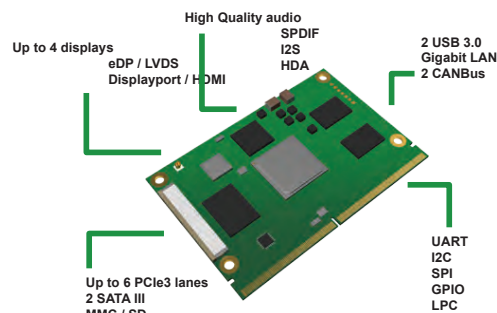


Longevity

TechNexion EDM Modules are designed by only using components from embedded roadmaps of strategic suppliers and are backed up with value added technical services such as life cycle management, revision control and end-of-life support.



All information about techNexion EDM can be found at the TechNexion homepage.



TechNexion and Open Source

TechNexion is a strong advocate of open source soft- and hardware. As a result all EDM baseboard schematics are freely available for download to assist "you" to develop your own baseboard.



Furthermore for customers that like our EDM modules and standard baseboards we have 2D and 3D files available to quickly integrate our products in your own custom enclosure.

TechNexion standard delivers software support for the following Operating Systems.



Android binary test images, instructions to make your own as well as complete **source code** available.



Linux binary test images and full **source code** of x-loader, u-boot, kernel and support packages available.



Windows CE BSP with **source code** and configuration scripts for our development kits are available.

Development Kits

Kickstart your project development cycle with our plug and play development kits that come pre-loaded with working software and all tools to assist you to validate performance and explore additional possibilities without the need to invest a huge amount of time and resources upfront.

Why would you choose EDM Modules?

EDM is the first true x86/ARM Cross platform pin-to-pin compatible standard

EDM is an open standard under the Creative Commons Share Alike license without membership fees, NDA's and restricted area's

EDM baseboard schematics and reference board are completely open-source. Every hardware vendor can submit their CPU Module for validation to ensure the unit is 100% software and hardware compatible with the standard to allow end users to swap between modules without hardware/software compatibility issues currently known when swapping between different Q7 or COM Express vendors.

EDM is the first worldwide standard that provides not only hardware and but also software compatibility between different modules.

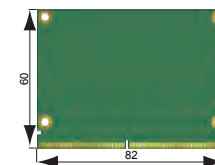
About EDM Standard

More information about the EDM Standard and how it can benefit your projects.

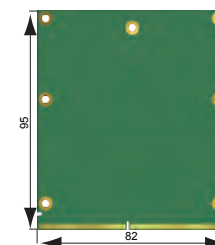


Visit : <http://www.edm-standard.org>

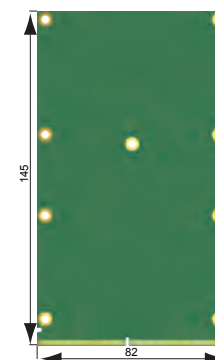
EDM Form Factors



EDM Compact



EDM Standard

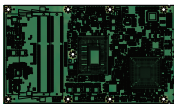


EDM Extended

EDM Compact													
Power 5 VDC	LAN	TTL		GPMC		I2S 2 nd	SPDIF	CANBus x2	SD	SPI x2	UART x2	Buttons + GPIO	RSVD
		LVDS/ eDP 1 st	HDMI/ DP 1 st	PCIe x2	SATA 1 st	USB OTG	USB Host	I2S 1 st			I ² C x2		RTC

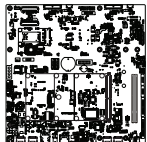
EDM Standard/Extended														
Power 5 VDC	LAN	LVDS/ eDP 2 nd	HDMI/ DP 2 nd	PCIe x4	SATA 2 nd	LPC	HDA	SPDIF	CANBus x2	SD	SPI x2	UART x2	Buttons + GPIO	RSVD
		LVDS/ eDP 1 st	HDMI/ DP 1 st	PCIe x2	SATA 1 st	USB OTG	USB Host	I2S 1 st				I ² C x2		

EDM Standard - Overview



EDM Module:	EDM-CF-iMX6	EDM-CT-AM437x	EDM-SF-iMX6	EDM-SF-AM437x	EDM-XI-QM77
Size	Compact (C)	Compact (C)	Standard (S)	Standard (S)	Extended (X)
Architecture	Cortex A9	Cortex A9	Cortex A9	Cortex A9	x86 i3 i7
CPU	1.2 GHz	1 GHz	1.2 GHz	1 GHZ	1.6 - 2.5 GHz
Chipset	MMPF0100NPZES	TWL6030	MPF0100NPZES	TWL6030	QM77
WiFi	○	○	○	○	
Memory	1 GB	1 GB	1 GB	1 GB	Dual Socket
NAND/ iNAND	512 MB / 4GB	512 MB / 4GB	512 MB / 4GB	512 MB / 4GB	
GPMC	●	●			
TTL	●	●			
LVDS	1	1	2	2	2
HDMI	1	1	1	1	2
DP					2
I ² S	2	2	1	1	1
HDA					●
SPDIF	●	●	●	●	
SATA	1	1	1	1	2
SDIO	●	●	●	●	
PCIe	x1	x1	x1	x1	x6
USB host	●	●	●	●	●
USB OTG / Client	●	●	●	●	
CAN Bus	2	2	2	2	2
SPI	2	2	2	2	2
I ² C	2	2	2	2	1
UART	2	2	2	2	2
RTC	●	●	●	●	●
Camera Interface	1	1	1	2	

○ = Option available at ordering



Baseboard:	Fairy	Elf	Druid	Seer	Wizard
EDM module	Compact	Compact	All	All	All
Size	3.5"	3.5"	A5	A5	mATX
Application	Mobile	Automation	Thin Client	Panel PC	EVM
8~30 VDC	●	●	●	●	●
Battery	●	●	●	●	●
TTL 45 pin (5")	●	●			●
LVDS	1	1	2 (to HDMI)	2	2
DP / HDMI	HDMI	HDMI	2 HDMI	HDMI	2 DP / 2 HDMI
Audio	I ² S	I ² S	both	both	both
SPDIF	●	●	●	●	●
Speaker	2W	2W	2W	10W	10W
Gigabit LAN	●	●	●	●	●
Serial UART/ 232/422/485	2	4	2	2	2
CAN	2	2	2	2	2
GPIO	8	8	8	8	8
USB Host / OTG	3 / 1	3 / 1	3 / 1	3 / 1	3 / 1
3G	1	1	1	1	1
PCIe	mini	mini	mini	mini	mini + PCI x4
SATA	1	1	1	1	2
SD	micro	micro	internal	internal	SD
Touch Display	●	●		●	●
NFC sensor	●				●
Mobile sensors	●				●
SPI/I2C EEPROM	●	●	●	●	●
LPC TPM interface			●	●	●
SPI/I2C pinheader	●	●	●	●	●