

The New Form Factor **efus**

Our latest product family represents 20 years of experience in RISC Boards



easy

starter kits
customized operating systems
(Linux, WEC 2013)
free support from F&S

functional

various interfaces
expandable with wireless modules
easy base board based on
"EasyLayout" standard

universal

visualization
communication
control

small

47 x 62mm only
5V Single Supply

Original Size



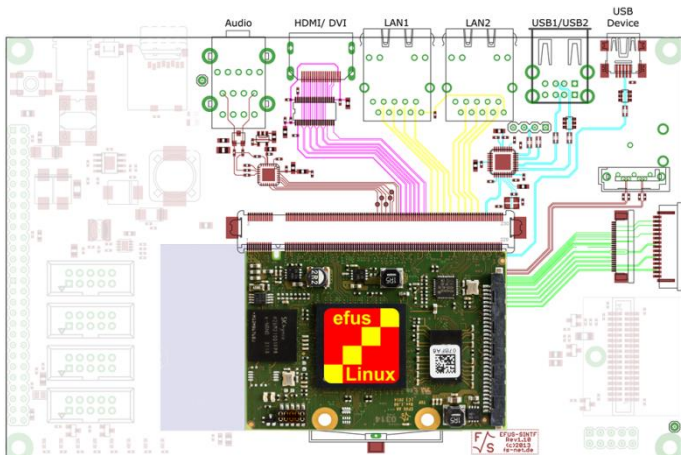
The **efus** project guarantee stands for free support. We are always at your side during your development. To start your project optimally, we offer starter kits and workshops.

The **efusA9** Computer-On-Module price (per 1000) also offers the lowest baseboard costs for YOUR development and production!

Why?

Our answer is **EASYMOUNT!** No need for screws to fix the module in high vibration surroundings, just click the module on your baseboard and the unit is resistant for shocks up to 50G!

EASYLAYOUT: Only 4 layers are needed to cause a minimum of crossing wires and a minimum count of vias for your baseboard. We developed our new form factor **efus** with focus on minimizing your development time.



You can start directly - just in time – you only need to download the EAGLE Source board design and libraries! Just put your needs on the baseboard and place your prototype order!

You want to have a special **custom chip ON MODULE?**

We have the solution: We will develop a special interface opposite the LVDS connector.

We offer inexpensive expandable areas, so the custom chip (e.g. WLAN, ZigBee, etc.) can be placed on module – only the software drivers need to be adjusted.

Our customers trust us: more than 60 % of our generated revenues come from the medical device industry.

efusA9

with Freescale i.MX6 Cortex-A9 Single- and Dual-Core CPU

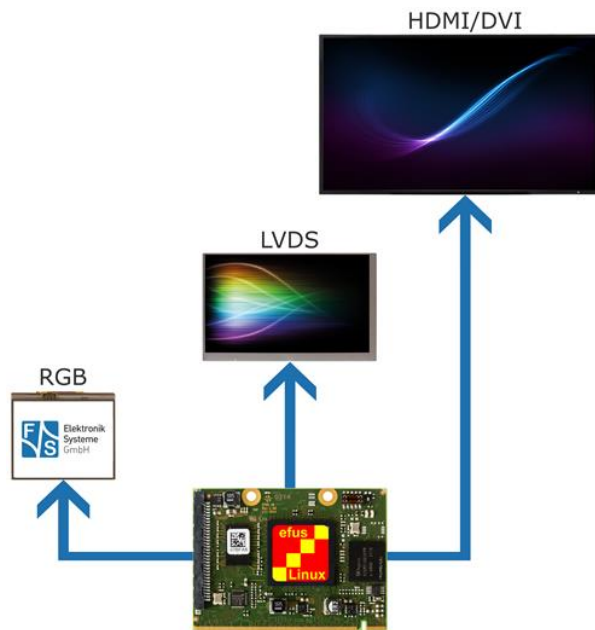


Description

The applied i.MX6 Cortex-A9 CPU comes with high performance, excellent multimedia features like 3D graphics (100MTri/s, 1000Mpx/s), Hardware Decoder/Encoder with a resolution up to 1080p, H.264 HP, HDMI v1.4, ARMv7™, NEON and VFPv3. Freescale's focus on chip design was low power consumption.

When using the ARM Cortex-A9 CPU, you definitely constitute the right compromise between performance/MHz and power consumption/MHz (0.35mW/MHz). ARM Cortex-A15 does indeed offer a higher performance (about 70% more at equal frequency), but it also has a much higher power consumption (about 100% more at equal frequency). Other important features are the long-time availability of up to 15 years and the temperature range of -40°C - +85°C.

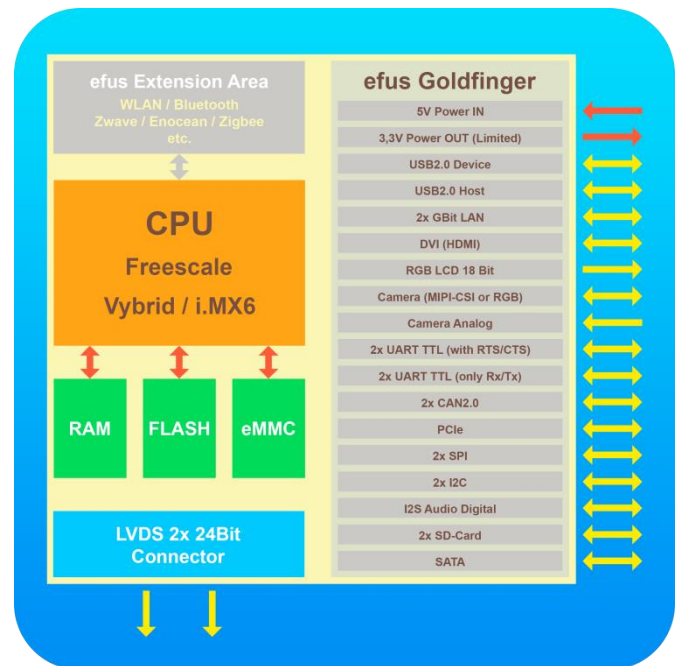
Additionally, the module offers various interfaces. It also enables the possibility to control a RGB display, a LVDS display and a DVI screen simultaneously.



simultaneous displaying

Support

Linux, WEC 7, as well as Windows Compact 2013 are available for efusA9. All starter kits are shipped with 7" TFT and pre-installed operating system. Optionally one has the opportunity to book a four-hour workshop in the short term (Windows Embedded CE or Linux). The customer can choose from additional hard- and software extensions (camera kit, UpDate programm, safe file system, etc.). We are looking forward to your questions via forum, phone, e-mail or in person.



Technical Data

Power Supply:	+5V _{DC} / ±5%
Power Consumption:	tbd
Interfaces:	1x Ethernet 10/100/1000MB 4x Serial 1x USB2.0 Host 1x USB2.0 Device 2x CAN2.0 2x I ² C 2x SPI 1x I2S (Audio Codec) 2x SDIO (SD-Card) 1x SATA PCIe (2.0) Camera Interface /YUV4:2:2 CCIR-656
TFT LCD-Interface:	18bit RGB & 1-2x 24bit LVDS & DVI
RAM:	up to 1GB DDR3-RAM
Program Memory:	up to 1GB Flash + 32GB eMMC
Processor:	ARM Cortex-A9 Single-/Dual-Core 800MHz/1GHz
Temperature Range:	0°C - +70°C , (-20°C - +85°C/ -40°C - +85°C optional)
Size:	47mm x 62.1mm x 11mm (l x b x d)
Weight:	tbd