

# Today's **technology** to make it **possible**

## APEXAR SOM

### SYSTEM ON MODULE

FULL CONNECTIVITY  
AT91SAM9G45/9M10  
400 MHZ MCU  
LCD SUPPORT UP TO 1280  
\* 860 PIXELS  
UP TO 512 MB NAND  
UP TO 128 MB RAM DDR2  
10/100 Mbps ETHERNET  
MAC CONTROLLER  
4 USARTS  
2 I2C/ SPI  
USB (HOST AND DEVICE)  
4 CHANNEL PWM



## APEXAR PDK

### PLATFORM DEVELOPMENT KIT

READY TO USE VIRTUAL  
APPLIANCE  
EASY INSTALLATION  
FLAT LEARNING CURVE  
TOTAL PLATFORM  
CUSTOMIZATION  
EXPANDABLE PACKAGE  
REPOSITORY  
GTK COMPATIBLE  
C/C++/PYTHON  
COMPATIBLE  
TARGET REMOTE UPDATE  
TCP/IP READY  
APPLICATION NOTES/  
DEMOS



## APEXAR PRO

### PRODUCTION MODULE DISPLAY

PRODUCTION READY  
4,3"/ 8" TFT DISPLAY  
18 BIT COLOR DEPTH  
TOUCH SCREEN  
ACRYLIC DISPLAY SUPPORT  
REAR CONNECTORS  
FULL CONNECTIVITY  
SD CARD  
ETHERNET  
USB  
GPIOs  
I2C/SPI  
TTL/RS232/RS485 SERIAL  
PWM  
AUDIO OUTPUTS



## APEXAR EVK

### EVALUATION KIT

4,3" TFT DISP\_AY  
480x272 PIXELS  
18 BIT COLOR DEPTH  
TOUCH SCREEN  
HEADPHONE OUTPUT  
MICROPHONE INPUT  
ETHERNET  
SD CARD  
GPIOs  
USB (HOST AND DEVICE)  
I2C/SPI  
TTL/RS232 SERIAL  
PWM



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## APEXAR **EMBEDDED SOLUTION**

**Apexar Embedded Solution** is designed for you  
to optimize your development of new devices  
adapting to new market trends.



# Affordable and easy to use

Shorten Time to Market ⌚  
Reduce Development Cost ↓\$  
Avoid Substantial Risks ✓  
Develop with Confidence and Support 💬

## APEXAR EMBEDDED SOLUTION

It is the most affordable and easy to use embedded ARM/Linux development platform for multimedia user interfaces and connectivity applications.

**Apexar Embedded Solution** merges together both open source and proprietary platforms advantages resulting in a total control of your linux platform targeting in the time to market reduction. It is a full hardware and software suit with the focus of helping developers to face new technology trends.

Its step-by-step structure adapts dynamically to your project.

### Technology challenge

#### Hardware:

Today's microcontroller's manufacturers are developing smaller, faster, more complex components that improve performance and reduce costs. These advances force embedded designers to consider other factors: manufacturability, board density, testability, and complexity versus time-to-market. Technical difficulties associated to the new advances keep current technology out of reach.

#### Software:

The use of Linux in embedded devices has grown significantly over the last few years. Companies are choosing Linux because of the open source code, its reliability and stability and the complete control over the platform being able to customize it using libraries available from the open source Linux community. However, building your own linux development platform is complex. Designing, creating, and maintaining that own platform can take months even for linux experts.



### APEXAR SOM

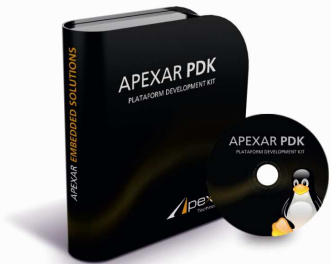
SYSTEM ON MODULE

Apexar Technologies have developed a new SOM, with the new ATMEL eMPU processors the AT91SAM9G45 and SAM9M10. With such performance characteristics that make of it the ideal solution for main powered, cost-sensitive industrial applications such as industrial & building control, HVAC, POS terminals, alarm systems, printers and medical applications.

### APEXAR PDK

PLATFORM DEVELOPMENT KIT

The Apexar PDK is a complete linux embedded development platform deployed in a useful virtual appliance. It reduces the learning curve and complexity associated with embedded linux devices development. You should only be worried and concerned about your application....nothing else; Apexar does the rest for you!



### APEXAR PRO

PRODUCTION MODULE DISPLAY

Apexar is continuously focusing in reducing customer's product time to market, development costs and risks. The Apexar PRO is pointing in that direction letting Apexar whole solution to be the best in reducing device time to market.



### APEXAR EVK

EVALUATION KIT

The apexar EVK is an evaluation kit containing a complete set of peripheral connectors that allows the SOM evaluation and the development of new applications.

