

PRELIMINARY - Product Brief



M2-SM6-xx - i.MX 6 SMARC Modules

Software Package

Windows Embedded Compact 7 & Windows Embedded Compact 2013

Introduction

Windows Embedded Compact 7:

Microsoft Windows Embedded Compact 7 is the evolution of Windows Embedded CE. It provides optimized support for the Capabilities of today's high-performance embedded systems and Integrates new technologies for the next generation of connected Healthcare and industrial solutions with entirely seamless Enterprise integration.

Windows Embedded Compact 7 offers a number of key performance improvements (CPU, kernel, storage), support for up to 3 GB of physical memory (RAM), new network connectivity features (NDIS 6.1, DLNA, MTP), advanced user interface design options (IE 7 for Embedded with pan/zoom, Adobe Flash 10.1, Silverlight for Embedded 3.0, multi-touch gestures) and Platform Builder 7 integration with Visual Studio 2008 and Expression Blend v3 development tools.

Windows Embedded Compact 2013:

Windows Embedded Compact 2013 is a streamlined, componentized device operating system that gives developers all the tools they need to create the next generation of intelligent systems solutions. With support for x86 and ARM architectures, Windows Embedded Compact 2013 provides the flexibility and real-time support to help device manufacturers reduce time to market while creating easy-to-use, multi-touch intelligent systems that help enterprises improve worker productivity. Updated to support Visual Studio 2012 and 2013.

**MAGIK-2 Family
M2-SM6-xx - i.MX 6 SMARC Modules
Software Package
Windows Embedded Compact**

The native, performance-optimized support for modern ARM processor architectures (ARMv7, NEON, and VFP) also makes Windows Embedded Compact 7 and Windows Embedded Compact 2013 the ideal choice for product designs built on the Magik-2 for i.MX6 based modules.

TES Electronic Solution is Freescale's Connect Partner and offers complete technical support for all hardware and software components, effectively eliminating inefficient and time-consuming interactions with multiple vendors. Working with a single, competent partner dramatically reduces your overall design risk and keeps your product development schedule on track.

Windows Embedded Compact 7 / 13 Software Package Highlights:

- Common BSP for Windows Embedded Compact 7 and Windows Embedded Compact 2013
- Common BSP for i.MX6 Quad/Dual/Solo core processor
- Manufacturing Tool to download Windows Embedded Compact production binaries
- Optimized BSP for fast boot

Supported Peripherals / Drivers

- VPU/GPU
 - Hardware Video codec integration
- IPU
 - Single/Dual Display support
- Multimedia
 - Audio, Image, Full HD Video
- HDMI / LVDS display
- Gigabit Ethernet
- PCIe 2.0
- Peripherals
 - UART, SPI, I2C, CAN, USB (OTG, Host, Device), GPIO, PMIC
- Storage
 - SATA, uSD card, eMMC, USB
- General Purpose Timers, Watch Dog Timer

Boot Loader

- U-Boot
 - Boot support for uSD card, eMMC, Ethernet, USB RNDIS
 - Custom boot splash screen
 - Load and Save boot configuration from uSD/eMMC
 - User/application-specific boot customization

Target Connectivity

- Image Download
 - ✓ Platform Builder
 - ✓ Ethernet
 - ✓ USB RNDIS
 - ✓ Active Sync
- Debugging
 - ✓ KITL over USB RNDIS and Ethernet
 - ✓ Kernel debugger
 - ✓ Remote Tools

Supported hardware Platform

- i.MX6 Magik-2 (Quad/Dual/Solo Processor core)

Documentation

- User Guide
- Hardware Reference Manual

Deliverables

- Prebuilt Binary Images
- SDK on request
- Documentation
- CETK results on request

Support and Services

- BSP and driver development
- Embedded application development
- Hardware customization
- System optimization
- Support contracts
- Training, workshops
- Design reviews
- Consulting and system integration services