iWave
Embedding Intelligence

Board Support Package
WEC7 on Freescale's i.MX6 SABRE SDP/B

Windows Embedded Compact 7 (WEC7), the latest from the Microsoft family is made available on Freescale's i.MX6 SABRE SDP/B by iWave Systems. This is new addition to iWave's growing expertise on windows compact BSP availability on various Freescale's platforms like i.MX6, i.MX53, i.MX51 and i.MX27. WEC7 BSP on i.MX6 SDP/B board comes packed with rich set of peripheral features and multimedia features. All the latest features of WEC7 such as Silverlight 3.0, MPEG-4 HD, Expression Blend, Active Sync and Adobe Flash10.1 are also made available in this BSP.

Benefits and Highlights :

- WEC7 Source code can be easily customized with respect to the target hardware platform.
- Simple and low cost integration for any Freescale i.MX6 based processors.
- Ideal for Quick Proof of concept (POC) development.
- Quick customization services in a very short period

Windows Embedded Silver Partner

freescale Connect Proven Partner

Target Applications:

Personal Navigation GPS devices
Ruggedized Handheld Terminals
Home Automation gateways
Industrial Controls
Kiosks & Mobile Point of Service devices
Health Monitoring Devices
Remote metering and monitoring devices

Related Products:

WEC7 on iWave's i.MX6 Board iW-RainboW-G15D
WEC7 on iWave's i.MX53 Board iW-RainboW-G11D

Features:

Platform:
CPU: i.MX6 Quad/Dual Lite 1GHz
1 GB DDR3 RAM
Booting:
Boot loader – (EBOOT)
Standard SD/SDHC/SDXC (Default boot & OS storage)
Kernel Features:
RTC
I2C
GPIO/IOMUX
SMP
PWM
INT Controller
Communication:
PCIe 2.0 x 1 lane Bus Interface
Gigabit Ethernet (10/100/1000Mbps)
Storage:
Hive Registry support
Standard SD/SDHC/SDXC
eMMC (Boot option available)
SATA 3.0 – 1 Port
USB 2.0 OTG (Host or OTG Device)

User Interface:
LVDS LCD (HSD100) - SDP*
HDMI – 1 Port - SDB*
eGalaxy Capacitive Touch
Ambient Light Sensor (ISL129023)
Back Light Control
3 Axis Accelerometer
Multimedia:
Multimedia Codecs
Audio Playback-I2S Audio Codec (WM8962)
DirectShow filters for decode
GPU (Open GL ES 2.0, Open VG)
OV5642 CMOS Camera
Miscellaneous Features:
Smart DMA
MAX8903 Battery Charger
Development:
Serial/Debug UART console
Active Sync support
KITL debugger (Ethernet or OTG Device)
CETK support
SDK for Application development
Image flashing and Manufacturing tool

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**Any one display will be (RGB or LVDS or HDMI) supported at a time. In SDP board default display will be LVDS LCD and in SDB board default display will be HDMI*

iW-S04BSP-F6SPWC-BR-R1.0

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA, specializing across Industrial, Automotive and Medical domains. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms based on ARM, Freescale, Intel Atom, Marvell and TI Processors. Our engineers combine outstanding System Design experience to deliver Quality Solutions. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products.