

Development Platform iW-RainboW-G16D-µMXM Vybrid µMXM Development Board



iW-RainboW-G16D, Vybrid μ MXM Development Kit incorporates Vybrid VF6xx SOM and Pico-ITX form factor carrier card. As it is based on Freescale's Vybrid VF6xx/VF5xx family solution combining ARM Cortex-A5 and Cortex-M4 cores, it eliminates the need for an external MCU for real time control applications. Vybrid devices also provide a powerful combination of on-chip encryption; secure boot, anti-tamper and anti-clone capabilities to secure sensitive or critical infrastructure applications such as smart grid or industrial control. The Vybrid μ MXM Development Kit is packed with 256MB on board RAM & 256MB NAND Flash and powered with Linux 3.0.15 OS. The module brings all the Vybrid peripheral interfaces to a 314-pin MXM edge connector which can be validated on the carrier board.

APPLICATIONS : Industrial Process Control & Kiosks, Smart Grid, Medical/Healthcare Devices, Smart Connected Devices, Battery operated handheld devices

iW-RainboW-G16D-µMXM HIGHLIGHTS

Dual Heterogeneous cores: ARM Cortex A5 @500 MHz&ARM Cortex M4 @ 167 MHz

Asymmetric Multi Processing

Commercial grade powering temperature

Ultra low power consumption

Security support & Mixed signal capability

SPECIFICATIONS

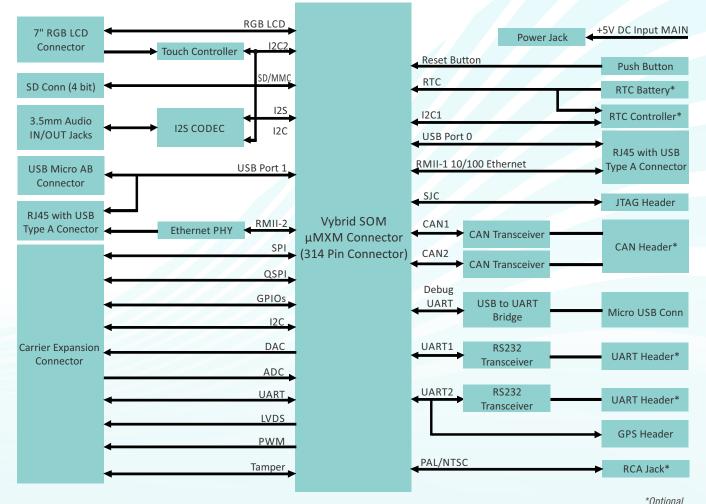
Vybrid µMXM SOM Vybrid VF6xx CPU 256MB DDR3 RAM 256MB NAND Flash (default boot device) OS: Linux 3.0.15

µMXM Carrier BoardRS232 Debug Console - 1 PortStandard SD - 1 PortUSB 2.0 Host x 1 PortUSB 2.0 OTG as a device - 1 Port10/100 Ethernet - 2 Port12S Audio Codec-Audio JackI2C Resistive touch controllerRGB Display interface (Display not included)





Vybrid µMXM DEVELOPMENT BOARD BLOCK DIAGRAM



OS SUPPORT

Linux 3.0.15

DELIVERABLES

iW-RainboW-G16D Platform **Board Support Packages Power Adapter** User Manual

OPTIONAL KITS

iW-RainboW-G16M-µMXM (Vybrid SOM Module)

CUSTOM DEVELOPMENT

Custom SOM/ Carrier development BSP Development/ OS Porting **Design Review & Support**

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise has brought out multiple SOMs based on ARM, Freescale, Intel Atom, Marvell and TI Processors.

iWave Systems has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

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*Optional items not included in the standard deliverables

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Ordering the Vybrid uMXM Development Board

The board can be ordered online from the iWave Website http://www.iwavesystems.com/webforms