



## IMB UE IP Core

**Integrated Mobile Broadcast (IMB) is standardised as part of 3GPP Release 8 and is ideally placed to address the growing market for a global broadcast solution for mobile devices. IMB harmonises the elements of existing 3GPP Release 7 WCDMA and TDCDMA standards to achieve a unified solution incorporating the best technology from both.**

### FEATURES

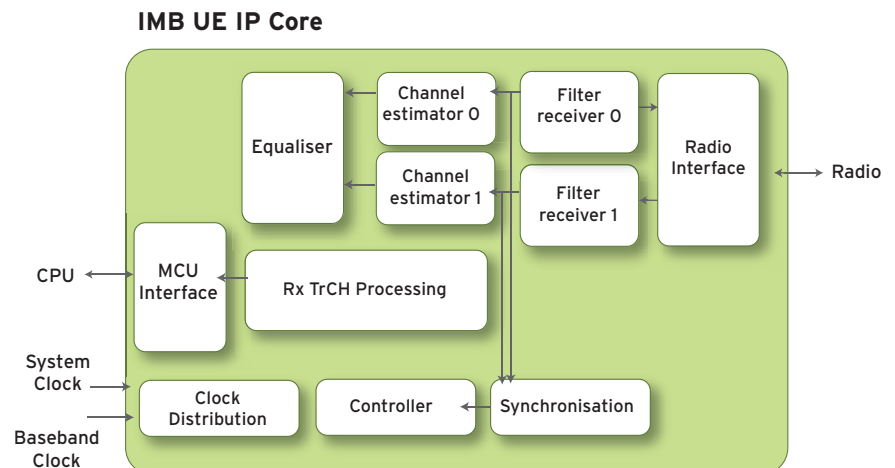
- Full 3GPP Release 8 IMB baseband operation
- AMBA or Custom bus interface
- Designed in synthesizable VHDL
- Designed for easy integration into vendors ASIC
- Dual parallel IQ interface.
- Flexible and customizable 3 wire and GPO radio interface
- Built in power saving features
- Supplied complete with full testbench suite, synthesis and compilation scripts.
- IP integration and Complete Turnkey IC design services available.
- Full “at speed” custom emulation platform for system development/ verification prior to fabrication available.
- Support of receive diversity
- IPWireless channel estimation and equaliser technology derived from multiple generations of IPWireless chipsets.
- The IMB IP core has the capacity to receive broadcast channels up to 512Kbps
- The IMB IP core has been designed to work at speeds up to 360Km/hr and so will work on high speed trains.

### DESCRIPTION

The IMB IP core from IPWireless provides all the baseband functionality for an IMB receiver application in a single integrated IP core. When integrated with a RF chipset/IP, a CPU core, host peripheral interface and the IPWireless IMB Layer 1 reference software, handset manufacturers can quickly bring innovative IMB solutions to market.

### APPLICATIONS

- Mobile broadcast on handsets
- Other mobile broadcast consumer devices such as
- Laptops
- PDAs
- In-car entertainment
- Satellite Navigation systems



## MODEL NUMBERS

<b>IMBIP001</b>	Full VHDL, testbench and scripts
<b>IMBIP002</b>	IMB Emulation platform
<b>IMBIP003</b>	Chip design services subject to SoW
<b>IMBIP004</b>	Layer 1 software reference design
<b>IMBIP005</b>	Software design services

## ORDERING INFORMATION

To place an order, please contact IPWireless regional sales.

Americas – americassales@ipwireless.com

EMEA – emeasales@ipwireless.com

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## ABOUT IPWIRELESS

IPWireless is a pioneer in developing and designing 3G and 4G wireless broadband and broadcast solutions, including chipsets, devices and complete network infrastructure solutions, based on 3GPP, the world's preeminent mobile standard. The company's high performance mobile broadband and integrated mobile broadcast (IMB) solutions enable mobile operators, consumer electronics companies, as well as government, public safety and military agencies to deliver a new generation of wireless services and develop compelling new applications using untapped global spectrum bands. The company's mobile broadband and IMB solutions have been deployed by some of the world's largest mobile operators, and government agencies including T-Mobile, Orange, New York City's Department of Information Technology and Telecommunications (DoITT) and more. In Q2 2010, IPWireless and Sony announced an initiative to jointly develop 4G and Beyond Wireless Technologies.

IPWireless is headquartered in San Francisco, California, and operates a technology development center in Chippenham, UK. For more information, visit the company's Web site at

[www.ipwireless.com](http://www.ipwireless.com).



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