

WLAN Solution for DaVinci™

Overview

Mistral's WLAN solution for DaVinci™ consists of the feature rich, small-footprint Murata/ Sychip LBWA18HEPZ module bundled with a comprehensive software package comprising of drivers for Linux 2.6 and Windows®CE 5.0. The solution helps developers using DaVinci™ to speed up the development of their size-constrained wireless-enabled devices.

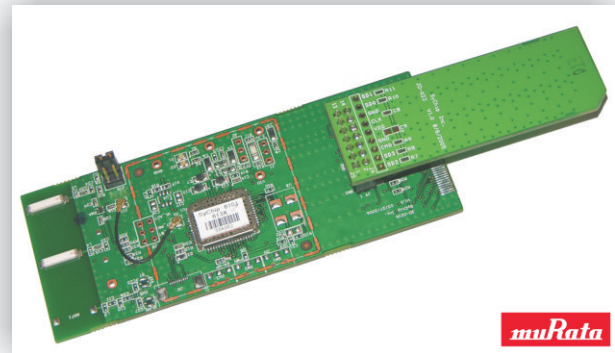
Product Description

Mistral's WLAN solution provides a significant advantage in development time and, ultimately, time-to-market for a host of devices where fast design cycles, minimum package volumes and ultra-low power consumption are required.

This WLAN solution is ideal for product developers who wish to begin developing their solutions at the earliest possible date. It supports their prototyping and production efforts by including evaluation modules that can either be plugged into the SDIO or SPI interface of DaVinci™ platforms, and also modules that can be directly mounted on prototype boards.

Hardware Specifications

- ▶ Standards Conformance: IEEE 802.11b/g
- ▶ Frequency Range: 2.4 to 2.5 GHz
- ▶ WLAN Host Interface: 1.8 or 3.3vdc
- ▶ WLAN RF Power: +15dBm 54 to 1 Mbps
- ▶ Receiver sensitivity: -70dBm typ 54Mbps, -91dBm typ 11 Mbps
- ▶ Power down current: 180 uA
- ▶ Receive DC Current: 175 mA
- ▶ Transmit DC Current: 300 mA
- ▶ Physical Dimensions: 8.2 mm x 8.4 mm x 1.3 mm
- ▶ RF Interfaces: PCB pad
- ▶ Host Interfaces: SDIO (1-bit, 4-bit), SPI
- ▶ Max Data Rate: 11 Mbps (b), 54 Mbps (g)
- ▶ Security: WEP, WPA, WPA2
- ▶ QoS: 802.11e, WMM.



Software Features

- ▶ Operating Systems Supported:
 - Windows®CE 5.0
 - Linux 2.6
- ▶ SDIO 4-bit driver
- ▶ SPI driver
- ▶ WLAN Driver.

Deliverables

Hardware:

- ▶ 5 Nos. LBWA18HEPZ Modules from Murata/Sychip
- ▶ 2 Nos. LBWA18HEPZ based EVK.

CD Containing:

- ▶ Drivers for Linux 2.6 and Windows®CE5.0 on DaVinci™
 - SDIO 4-bit driver
 - SPI driver (only for Linux)
 - WLAN driver
- ▶ Test Reports
- ▶ Documentation.

Applications

Next generation small form-factor devices like:

- ▶ Feature Phones
- ▶ Smart Phones
- ▶ PDAs
- ▶ Gaming Devices
- ▶ Medical Devices
- ▶ VoIP
- ▶ Video Conferencing
- ▶ Network Projectors
- ▶ Personal Media Players.

About LBWA18HEPZ

Murata/Sychip's LBWA18HEPZ is a complete IEEE 802.11b/g wireless LAN module requiring just 64 square millimeters of host PCB area. Integrated within the module are a host of active and passive components resulting in a simple package for the customer. The on-module components include the WLAN chip, EEPROM, LDO regulator, Driver and Power Amplifier, Crystal, Balun, and SPDT switch, along with the necessary firmware.

The host interface of LBWA18HEPZ supports SDIO (1-bit & 4-bit) and SPI applications. These options give users maximum flexibility in their system design. The LBWA18HEPZ has been designed to mount directly to the host device main board or daughter-card, utilizing a surface mount Chip Scale Module (CSM) in a QFN package for high-volume production. It requires only an external antenna to realize IEEE 802.11b/g functionality.

Also Available

Also available from Mistral is a WLAN Solution on Murata/Sychip's end-of-life product WLAN6101EB. For more information on this product, please email us at enquiry@mistralsolutions.com.

Customization

Mistral can provide customized services, to help port these drivers to other platforms. For more information, contact enquiry@mistralsolutions.com.

Licensing

For licensing information please email us at sales@mistralsolutions.com or call +1-972-361-8069 for USA and +91-80- 2535 6400 for rest of the world.

About Mistral

Mistral is a CMMi Level 3, ISO 9001:2000 certified premier product realization company; providing end-to-end services for product design and development in the embedded space. We offer expert design and development services covering hardware and software, customizable product designs and IP, System Integration and COTS Solutions; all of which serve to improve quality

and reduce time-to-market for a broad range of embedded systems. Mistral's expert design and development services and strategic partnerships with leading technology companies enables us to offer a comprehensive package of end-to-end services ranging from front-end consulting and planning, to developing, integrating and managing technology solutions.



Mistral Solutions Pvt. Ltd.,
No.60, 'Adarsh Regent',
100 Ft. Ring Road,
Domlur Ext, Bangalore - 560 071
Tel: +91-80-2535 6400
Fax: +91-80-2535 6440
E-mail: info@mistralsolutions.com

Mistral Software Inc.
Tollway Plaza Center - Tower 2,
15950 N. Dallas Parkway
Suite 400, Dallas, TX 75248
Tel:+1-972-361- 8069
Fax:+1-972-361-8070
E-mail: usa@mistralssoftware.com

Kane Computing Ltd
7 Theatre Court, London Road,
Northwich, Cheshire, CW9 5HB,UK
Tel:+44(0)1606 351006
Fax:+44(0)1606 351007/8
www.kanecomputing.co.uk
E-mail: sales@kanecomputing.com