

WL1271 Daughter Card

Overview

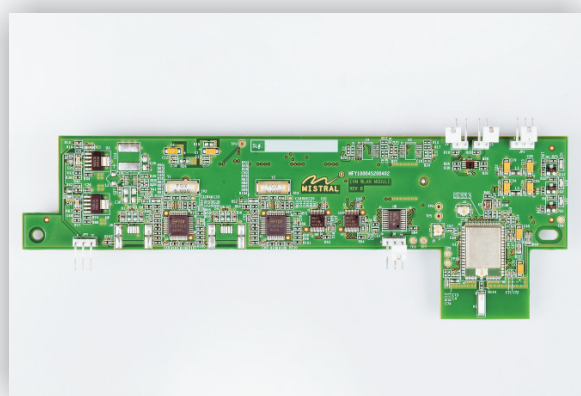
The WL1271 Daughter Card for OMAP3/AM/DM37x EVM from Mistral is a WLAN and Bluetooth® (BT) add-on card, based on the LS Research module with Texas Instruments WL1271 device bundled with a comprehensive software package for Linux 2.6. WL1271 is part of TI's WiLink™ 6.0 product family. The software package includes a WLAN driver, which provides mobile WLAN connectivity solution for home/SOHO and public environments, and a Bluetooth® driver integrated to Linux BlueZ (BT Stack).

Hardware Specifications

- ▶ Based on LS Research WLAN/Bluetooth® module with TI's WL1271 solution
- ▶ WLAN Host interface via SDIO
- ▶ 1-bit or 4-bit SDIO support
- ▶ BT Host interface via UART
- ▶ BT audio (PCM) Interface via I2S
- ▶ Single antenna for WLAN and BT
- ▶ Option for U.FL external or on-board chip antenna
- ▶ On-board chip antenna is the default option

Software Features

- ▶ WLAN Driver
 - Specification Compliance: 802.11b/g/d/e/i/n
 - QoS: WMM, EDCA (EDCF), U-APSD, TXOP
 - Security: WiFi WPA and WPA2, WEP, TKIP, AES
 - Power Save:
 - Legacy 802.11 power-saving scheme, in accordance with 802.11-2007
 - U-APSD as defined by WMM-PS
 - Host Interface:
 - WLAN: SDIO 4-bit operating at 24-MHz clock; Multi-block operation supported
 - BT: UART, with flow control
 - General:
 - Infrastructure and adhoc (IBSS) operation
 - ATE and BIP
 - Scan and Roaming
 - Filtering
 - Power control



- Standards Supported by Driver
 - WiFi WPA, WPA2
 - WiFi WMM, WMM-PS
 - WiFi 802.11n
- ▶ Bluetooth® Driver
 - Specification Compliance: Bluetooth® 2.1 + EDR
 - BlueZ Bluetooth® Stack support
 - Bluetooth® QoS
 - Improved ACL Connection Scheduling Algorithms
 - Faster AFH channel detection for voice and data
 - HCILL
 - Supported Profiles:
 - A2DP
 - OBEX (server and client)
 - FTP
 - Basic BMG (scan, browse, pair...)
 - HFP/HSP

- ▶ WLAN/Bluetooth® Co-existence
 - Best-in-class co-existence firmware algorithms allowing single antenna solution

Deliverables

- WL1271 daughter card
- Setup Guide
- CD with WLAN & BT drivers

Ordering

For ordering information please email us at sales@mistralsolutions.com or call +1-408-705-2240 for USA and +91-80- 3091 2600 for rest of the world.

Limitations

The WL1271 Daughter Card is only compatible with the OMAP3/AM/DM37x EVM Rev. G.

About Mistral

Mistral is a technology design and systems engineering company providing end-to-end solutions for product design and application deployment. Mistral is focused in three business domains: Product Engineering Services, Defense Solutions and Homeland Security. Mistral provides total solutions for a given requirement, which may include hardware board design, embedded software development, FPGA design, systems integration and customized turnkey solutions. Mistral's strategic

partnerships with leading technology companies help provide customers with a comprehensive package of end-to-end solutions.

Mistral Solutions is a broad market OMAP Technology Center (OTC) offering services in the area of software and hardware design, development and consulting on the OMAP™ platform.



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