

8F-1, No.186, Jian 1st Road, ZhongHe District., New Taipei City , Taiwan (Zip 235)

TEL:(886)-2-8227-1799 FAX:(886)-2-8227-1798

E-mail: <u>Sales@ChipSiP.com</u> http://www.ChipSiP.com

BRIEF DATASHEET

| Customer: | |
|-----------------|---|
| Product Number: | CWFF102 |
| Description: | 802.11 b/g/n 1T/1R USB Module for embedded platform |

| Approved Signatures | <i>鉅景科技</i> |
|---------------------|-----------------|
| | |
| | |
| | |
| | Contact Person: |

Copyright

©2013 ChipSiP Technology Co., Ltd. All rights reserved. No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means without written permission of ChipSiP Technology Co., Ltd.

Disclaimer

ChipSiP provides this document "as is", without warranty of any kind. ChipSiP may make improvements and/or changes in this document or in the product described in this document at any time. This document could include technical inaccuracies or typographical errors.

Trademarks

ChipSiP is a trademark of ChipSiP Technology Co., Ltd. Other names mentioned in this document are trademarks/registered trademarks of their respective owners.

Using This Document

This document is intended for hardware and software engineer's general information on the product. Though every effort has been made to ensure that this document is current and accurate, more information may have become available subsequent to the production of this guide.

Revision History

| Revision | Release Date | Description |
|----------|--------------|---------------------|
| 0.1 | 2013/05/22 | Preliminary Edition |
| 0.2 | 2013/05/22 | Add pin definition |
| | | Below is blank |



Description

Chipsip Solution is a small-sized, 802.11bgn USB module that achieves a data rate up to 150Mbps. It is 3 times faster than the normal 11bg product and with better performance.

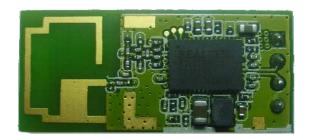
This product supports Client/Soft AP/WiFi Direct, Miracast mode for embedded platform. It is ideal for multi-purpose installation in Linux environment to share wireless connection.

By supporting 64/128-bits WEP, TKIP, WPA, WPA2 and WPS, helps to protect your data and privacy during transmission.

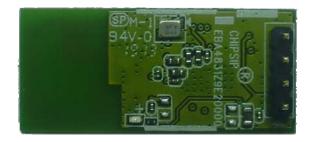
This module could be used for embedded platform that need 2.4GHz frequency band and could be mounted on system board like IPTV, STB, Media Player, Industrial PC, Connected TV, Smart Phone, PAD which embedded SOC has USB host device.

Features

- Realtek RTL8188EUS chipset with USB 2.0 slave interface.
- Date Rate up to 150Mbps
- Security: 64/128-bits WEP, TKIP,WPA, WPA2, AES
- Linux/ some Android drivers supported



Top View



Bottom View



Specification

Hardware Features:

| Standard | IEEE 802.11 b/g/n | |
|-----------------------|---|--|
| Wireless LAN | 1T1R mode | |
| Antenna | PCB print antenna on board (0 dBi) | |
| Interface | USB slave with 4-pin header (3.3V, U+, U- and GND) Power LED | |
| Fraguency Dange | 802.11b/g 2.4~2.484GHz | |
| Frequency Range | 802.11n 2.4~2.484GHz (Subject to local regulations) | |
| | 802.11b: 1, 2, 5,5, 11Mbps | |
| Data Rate | 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps | |
| | 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65Mbps | |
| Transmit Power +/- | 11n HT40 MCS7 : +12dBm | |
| | 11b: +17dBm | |
| 2dBm (EIRP) | 11g :+15dBm | |
| | 11gn: -66dBm at HT40 (MCS7) | |
| Receiver Sensitivity | 11gn: -67dBm at HT20 (MCS15) | |
| 1 COCIVET OCTIONIVITY | 11g: -72dBm at 54Mpbs | |
| | 11b: -80dBm at 11Mpbs | |
| Software Supports | Linux/Android driver | |
| Range | Indoors: up to 50 meters indoor | |
| Power Requirement | 3.3V by pin header | |
| Dimension | 25.0 x 11.2 x 8.0 mm | |
| Certifications | FCC/CE by request | |

Pin Definition

| Pin | Description |
|-----|-------------|
| 1 | VDD +3.3V |
| 2 | USB_D- |
| 3 | USB_D+ |
| 4 | GND |



Product Dimension and Drawing

Product outline size: about 25.0 x 11.2 mm

Mechanical Drawing: (unit: mm, tolerance: ±0.15mm)

