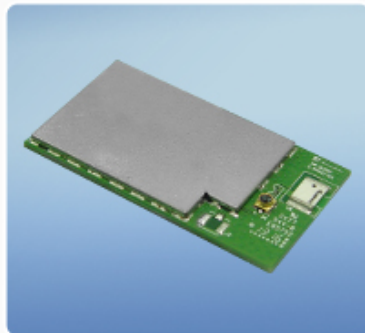


## Products

Wireless Module ▶ WLAN ▶ AW-CU282

Wireless Modules

Camera Modules



### IEEE 802.11 b/g/n Smart Energy Module

#### Feature:

#### Microcontroller:

- ▶ High-performance (up to 200MHz) Cortex-M3 CPU
- ▶ 512KB SRAM
- ▶ High-speed connectivity interfaces for SDIO and USB-OTG (full-speed) with integrated PHY
- ▶ 1MB Embedded Flash with QSPI interface to Cortex-M3
- ▶ QSPI interface for optional external FLASH
- ▶ Power management with support for low-power modes and flexible clock gating

#### Wi-Fi :

- ▶ Wi-Fi supporting 802.11 b/g/n standards
- ▶ WPA-2 security using AES/CCMP along with legacy security features
- ▶ Wireless Protected Setup 2.0
- ▶ Wi-Fi Direct
- ▶ Beam forming

### Description

AzureWave presents AW-CU282 Wi-Fi Microcontroller Smart Energy Platform Solution provides a highly cost-effective, flexible and easy to-use hardware/software platform to build a new generation of connected, smart devices. These smart-connected devices enable device to deliver a broad-range of services to consumers including energy-management, demand-response, home automation and remote access. This allows a user to manage comfort and convenience, also run diagnostics and receive alerts and notifications, in addition to managing and controlling the device. Developers can leverage the rich connectivity features of these new smart devices to create a new generation of innovative new applications and services

The platform builds upon the success of Marvell's first-generation Wi-Fi microcontroller platform using the Marvell Avastar<sup>®</sup> 88W8782 Wi-Fi System-on-Chip (SoC) and Marvell Easy Connect software. Adding new enhancements and capabilities, the second-generation Smart Energy hardware platform is built with a new high-performance Marvell Cortex-M3 microcontroller (Marvell 88MC200) optimized to run Marvell's Easy Connect software. It is paired with Marvell's industry leading low-power Wi-Fi SoCs to provide best-in-class performance and rich features including IEEE 802.11n, Beamforming, Access-Point mode and Wi-Fi Direct.



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