WiFi Shield

AVNET SILICA

IEEE 802.11 B/G/N, INTEGRATED ANTENNA, ARDUINO COMPATIBLE

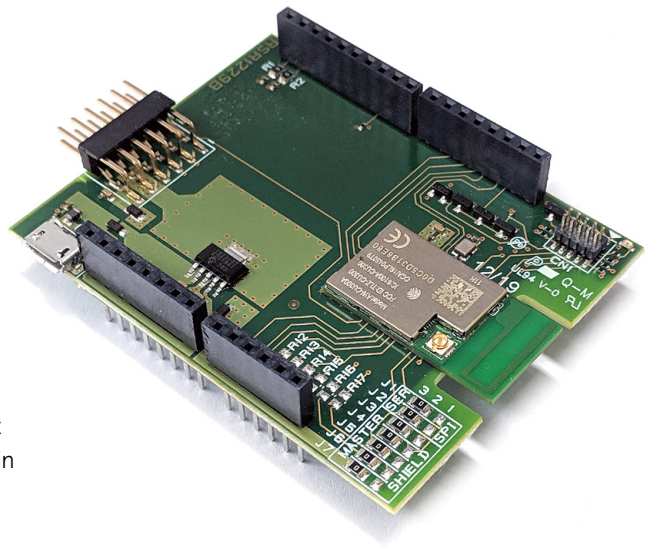
The Avnet Silica WiFi Shield is based on the low-power AW-CU300A WLAN microcontroller module from AzureWave Technologies. This IEEE802.11 b/g/n module comes with an integrated antenna and provides Arduino pinout connectors, thereby delivering the ultimate in flexibility by leveraging the huge ecosystem of Arduino-compatible microcontroller boards.

Developers therefore have a wide choice from an extensive selection of boards and devices that best fit their target application – such as STMicroelectronics' STM32 Nucleo boards or NXP LPCXpresso boards combined with sensors and other peripheral boards, as required. The Avnet Silica WiFi Shield is also equipped with Pmod connectors for extended compatibility with additional boards.

The AW-CU300A module is based on the 88MW300 WiFi SoC processor from Marvell, which enables easy programming through commands sent via the UART interface. It can also be used as a processor board with the 88MW300 SoC implementing user applications, which can be achieved via Marvell's SDK.

KEY FEATURES

- Based on AW-CU300A
- I/O Interfaces
  - UART
  - JTAG
  - GPIO
  - SSP
  - I^2C
  - GPT
- Internal Memory: 2MByte QSPI Flash
- Wireless
  - Wi-Fi 802.11 b/g/n
  - Integrated printed antenna
- High Integration and Low-RBOM: Single 3.3V power input
- Package: LGA module – 28 mm x 15 mm x 2.35 mm, 74-pin
- Antenna
  - Support printed Antenna for internal Antenna
  - Support U.FL Connector for external Antenna
  - Antenna diversity



BLOCK DIAGRAM

Order Code: AVSWIFI-CU300A-SHIELD

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