embedded wireless GmbH

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embedded wireless BALIN WLAN DUALBAND CPU MODULE enables powerful mobile applications in the consumer and industrial area.

The OpenWrt operating system adds many features to your application:
R/W filesystem, more than 2000 packaged 3rd party software, routing, firewalling, shell access, web access, VLAN, OPENVPN, IPSEC, HTTP, HTTPS etc. etc.

USB 2.0 Host/Gadget enables 3G/4G applications, camera integration, NAS appliances etc. etc. Audio SPDIF support available.

Specification

IEEE Wireless Lan Standard:	WLAN according IEEE 802.11n, 2x2 MIMO, compatible to .11abg
Prozessor:	560 MHz Networking Processor AR9344
Memory:	64 MB RAM 16 MB Flash
Electrical Interface:	3 x Ethernet 10/100BaseT (PHYs on board) or 1 Gigabit SGMII interface, USB 2.0 Master/Slave, GPIOs, UART, JTAG, Digital Audio I2S/SPDIF, additional external Mini PCIe
Mechanical Interface:	Mini PCIe
Frequency:	2.400 - 2.4835GHz, 5.180 – 5.825GHz
Sensitivity:	Up to -76dBm @ 2.412GHz, 54 Mbit/s (11dB better than required by IEEE Std 802.11™-2012) Up to -74dBm @ 5.200GHz, 54 Mbit/s (9dB better than required by IEEE Std 802.11™-2012)
Datarate:	Up to 300Mbit/s
Software:	Free Linux based OpenWrt Operating System. Linux Kernelversion 3.10. Information: www.openwrt.org.
License:	If not otherwise stated in the source files, the OpenWrt build environment is provided under the terms of the GNU General Public License Version 2 (https://dev.openwrt.org/browser/trunk/LICENSE)
Security by OS:	WEP, WPA, WPA2 PSK + EAP
Power consumption:	Ca. 2-3W. Depends on use.
Antenna Connector:	2 x U.FL
Temperature:	Operating: -5°C to 65°C - Storage: -20°C to 80°C. Industrial temperature option available, please ask
Dimension:	30mm x 50,95mm x 4,8mm (H x W x D)
Mounting Hole:	2 x 2.60 mm
ROHS Compliance	Yes

SUBJECT TO CHANGE WITHOUT NOTICE.

BALIN Evalboard front