

NAME

ath_hal - Atheros Hardware Access Layer (HAL)

SYNOPSIS

device ath_hal or
device ath_ar5210
device ath_ar5211
device ath_ar5212
device ath_rf2413
device ath_rf2417
device ath_rf2425
device ath_rf5111
device ath_rf5112
device ath_rf5413
device ath_ar5416
device ath_ar9160
device ath_ar9280
device ath_ar9285
device ath_ar9287
device ath_ar9300

DESCRIPTION

The hal provides hardware support for wireless network adapters based on the Atheros AR5210, AR5211, AR5212, AR5213, AR2413, AR2417, AR2425, AR5413, AR5416, AR5418, AR5424, AR9160, AR9220, AR9280, AR9285, AR9287, AR9380, AR9390, AR9580, AR9590, AR9562 and QCA9565 chips (and companion RF/baseband parts). This code is part of the ath(4) driver but configured separately to allow fine-grained control over the set of chips supported. Selecting **ath_hal** enables support for all PCI and Cardbus devices.

Some devices come in Cardbus/MiniPCI/PCI format. Others (for example AR2413, AR2427, AR5418, AR9280, AR9285, AR9287) come in PCIe, Mini-PCIe or ExpressCard format.

Historically this code has been released in a binary-only form and packaged as a separate module. With the release of source code for the hal this is no longer true and the code is tightly integrated with the driver.

HARDWARE

The following cards are among those supported by the **ath_hal** module:

<i>Card</i>	Chip	Bus	Standard
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Aztech WL830PC	AR5212	CardBus	b/g
D-Link DWL-A650	AR5210	CardBus	a
D-Link DWL-AB650	AR5211	CardBus	a/b
D-Link DWL-A520	AR5210	PCI	a
D-Link DWL-AG520	AR5212	PCI	a/b/g
D-Link DWL-AG650	AR5212	CardBus	a/b/g
D-Link DWL-G520B	AR5212	PCI	b/g
D-Link DWL-G650B	AR5212	CardBus	b/g
Elecom LD-WL54AG	AR5212	Cardbus	a/b/g
Elecom LD-WL54	AR5211	Cardbus	a
Fujitsu E5454	AR5212	Cardbus	a/b/g
Fujitsu FMV-JW481	AR5212	Cardbus	a/b/g
Fujitsu E5454	AR5212	Cardbus	a/b/g
HP NC4000	AR5212	PCI	a/b/g
I/O Data WN-AB	AR5212	CardBus	a/b
I/O Data WN-AG	AR5212	CardBus	a/b/g
I/O Data WN-A54	AR5212	CardBus	a
Linksys WMP55AG	AR5212	PCI	a/b/g
Linksys WPC51AB	AR5211	CardBus	a/b
Linksys WPC55AG	AR5212	CardBus	a/b/g
NEC PA-WL/54AG	AR5212	CardBus	a/b/g
Netgear WAG311	AR5212	PCI	a/b/g
Netgear WAB501	AR5211	CardBus	a/b
Netgear WAG511	AR5212	CardBus	a/b/g
Netgear WG311 (aka WG311v1)	AR5212	PCI	b/g
Netgear WG311v2	AR5212	PCI	b/g
Netgear WG311T	AR5212	PCI	b/g
Netgear WG511T	AR5212	CardBus	b/g
Orinoco 8480	AR5212	CardBus	a/b/g
Orinoco 8470WD	AR5212	CardBus	a/b/g
Proxim Skyline 4030	AR5210	CardBus	a
Proxim Skyline 4032	AR5210	PCI	a
Samsung SWL-5200N	AR5212	CardBus	a/b/g
SMC SMC2735W	AR5210	CardBus	a
Sony PCWA-C700	AR5212	Cardbus	a/b
Sony PCWA-C300S	AR5212	Cardbus	b/g
Sony PCWA-C500	AR5210	Cardbus	a
3Com 3CRPAG175	AR5212	CardBus	a/b/g
TP-LINK TL-WDN4800			

AR9380 PCIe a/b/g/n

SEE ALSO

ath(4)

HISTORY

The **ath_hal** module first appeared in FreeBSD 5.2.

BUGS

See ath(4) for known bugs.