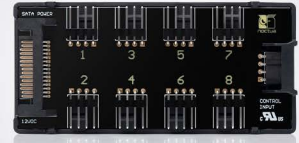# Noctua NA-FH1
8 Channel Fan Hub

NA-FH1

The NA-FH1 is a high-quality, smartly-protected 8 channel PWM fan hub that allows up to eight PWM fans to be run and controlled simultaneously via a single PWM motherboard fan header or stand-alone controllers such as the optional NA-FC1. Non-PWM fans can be controlled by adjusting the input voltage. Supporting both 12V and 5V fans with 4-pin PWM and 3-pin connectors, the NA-FH1 is highly flexible and suitable both for PC environments and other 12V- or 5V-based applications. It can be powered either via its S-ATA input (for 12V fans, up to 54W) or 4-pin PWM input (for 5V and 12V fans, up to 24W), both of which are protected against overcurrent with a self-resetting fuse for maximum safety even in case of short-circuits on the connected devices or cables. The two ports can also be used concurrently with the device, automatically taking power via S-ATA and exchanging RPM and PWM signals via the 4-pin interface. White status LEDs allow for easy monitoring and thanks to its magnetic fixture, installing the NA-FH1 inside a PC case or on any other steel surface is a breeze. Topped off with CE, UKCA and UL certifications, full compliance with all applicable safety standards as well as Noctua's 6-year manufacturer's warranty, the NA-FH1 is a safe, dependable premium choice for powering and controlling up to eight fans.

LOGISTIC DATA

Product name
Noctua NA-FH1

EAN
9010018201406

UPC
841501121401

Packaging dimensions (HxWxD)
140x80x16 mm

Weight incl. packaging
74 g

Warranty
6 years

Packaging unit
80 pcs

Packaging dimensions / unit (HxWxD)
384x303x200 mm

Weight incl. packaging / unit
6.80 kg

SCOPE OF DELIVERY

NA-FH1 fan hub

NA-EC1 4-pin PWM input cable

93 mm

43 mm

Up to 54W via S-ATA and 24W via 4-pin
When powered via it's S-ATA interface (for 12V fans only), the NA-FH1 can run fans with a combined power draw of up to 54W. When using the 4-pin PWM input only (for 5V or 12V fans), the maximum power draw can go as high as 24W.

Controlling high-power fans safely
If both its S-ATA and 4-pin input ports are connected, the NA-FH1 will automatically draw power via S-ATA and use the 4-pin port for PWM control and RPM monitoring only. This way, it is possible to control fans with high power consumption safely without risking damage to the motherboard.

RPM and status monitoring
The NA-FH1 transmits the RPM speed signal of the fan connected to the first port to the motherboard for speed monitoring. For additional watchdog functionality, all ports feature white status LEDs that light up if an RPM signal is being received and go off if the fan stops or fails.

Compatible with 4-pin PWM and 3-pin fans
While only 4-pin PWM fans can be controlled via PWM, the NA-FH1's keyed output connectors are also compatible with 3-pin fans, so it can also be used to run multiple 3-pin fans from a single power source and to adjust their speed simultaneously by reducing the input voltage.

Ideal combination with optional NA-FC1 fan controller
The NA-FH1 is ideal for controlling multiple PWM fans using the optional NA-FC1 controller. Thanks to a reverse-power design on the 4-pin input of the NA-FH1, the NA-FC1 can control the connected fans even if the hub is powered via its S-ATA interface only and if there is no other connection or input on the 4-pin interface.

Safety certifications
Unlike many cheap fan hubs, the NA-FH1 has been carefully tested for product safety and EMC compliance. Carrying CE, UKCA and UL certifications and meeting all applicable standards (EN 62368-1, EN 55035, EN 55032, UL-507), it is a safe, quality device through and through.

6-year manufacturer's warranty
Noctua products are renowned for their impeccable quality and outstanding longevity. Like Noctua's fans and heatsinks, the NA-FH1 is a robust, dependable product that has been carefully engineered to stand the test of time.

Caution: Do not place directly on hard disk drives, keep at least 5cm distance. When powering via the 4-pin input from a PC motherboard, please check your motherboard manual for the maximum current of the fan header and make sure not to exceed it.

SPECIFICATIONS

Output connectors	8x 4-pin PWM
Input connectors	1x S-ATA (for 12V fans only), 1x 4-pin PWM
Max. power via S-ATA input	54 W
Max. power via 4-pin PWM input	24 W
Operating voltage	5-12 V
Operating temperature	-40°C to +60°C
Flammability class	UL-94 V-0
Safety standards	EN 62368-1, EN 55035, EN 55032, UL-507
Certifications	CE, UKCA, UL
Fan compatibility	all Noctua 12V and 5V fans, many third party fans
Scope of delivery	NA-FH1, NA-EC1 4-pin PWM input cable
Size	93x43x12.5 mm
Weight	31 g
Warranty	6 years

www.noctua.at

noctua
DESIGNED IN AUSTRIA