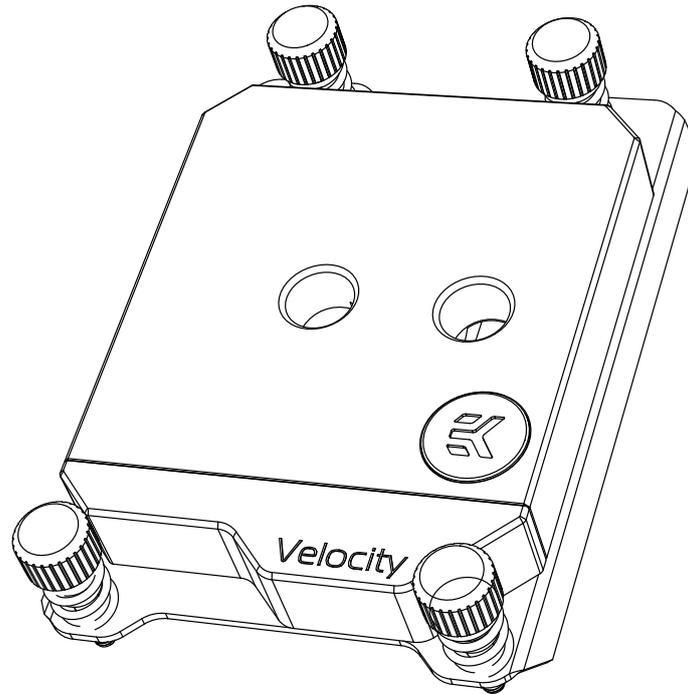




EK-Velocity sTR4

CPU WATER BLOCK



This product is intended for installation only by expert users. Please consult with a qualified technician for installation. Improper installation may result in damage to your equipment. EK Water Blocks assumes no liability whatsoever, expressed or implied, for the use of these products, nor their installation. The following instructions are subject to change without notice. Please visit our website at www.ekwb.com for updates. Before installation of this product, please read important notice, disclosure, and warranty conditions that are printed on the back of the box.

Before you start using this product, please follow these basic guidelines:

Please carefully read the manual before beginning the installation process.

Please remove your graphics card from the computer to assure the safest mounting process and prevent any possible damage to your GPU and/or graphics card circuit board (PCB).

The EK Fittings require only a small amount of force to screw them firmly in place since the liquid seal is ensured by the rubber O-ring gaskets.

The use of corrosion inhibiting coolants is always recommended for liquid cooling systems, and mandatory for nickel plated water blocks!

Do not use pure distilled water! For best results EK recommends the use of EK-CryoFuel coolants.

Make sure to thoroughly bleed air out of your water block, or you will not reach optimal performance.

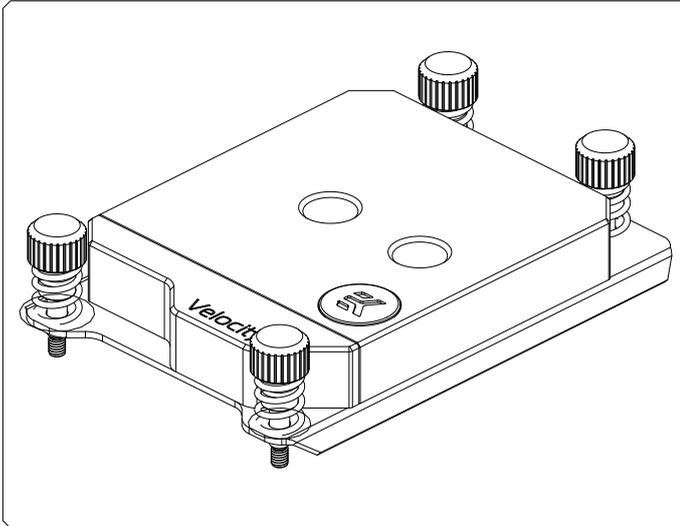
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QUICK INSTALLATION GUIDE

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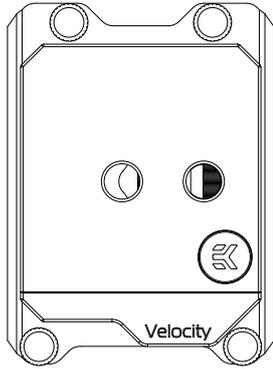
GENERAL INFORMATION ON WATER BLOCK COMPATIBILITY



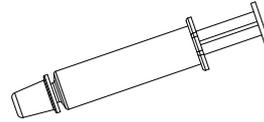
This CPU liquid cooling unit is pre-assembled for use with modern AMD desktop socket type motherboards. By default (out of the box) this water block supports the following CPU sockets:

- **AMD TR4 socket**
- **AMD SP3 socket**

BOX CONTENTS

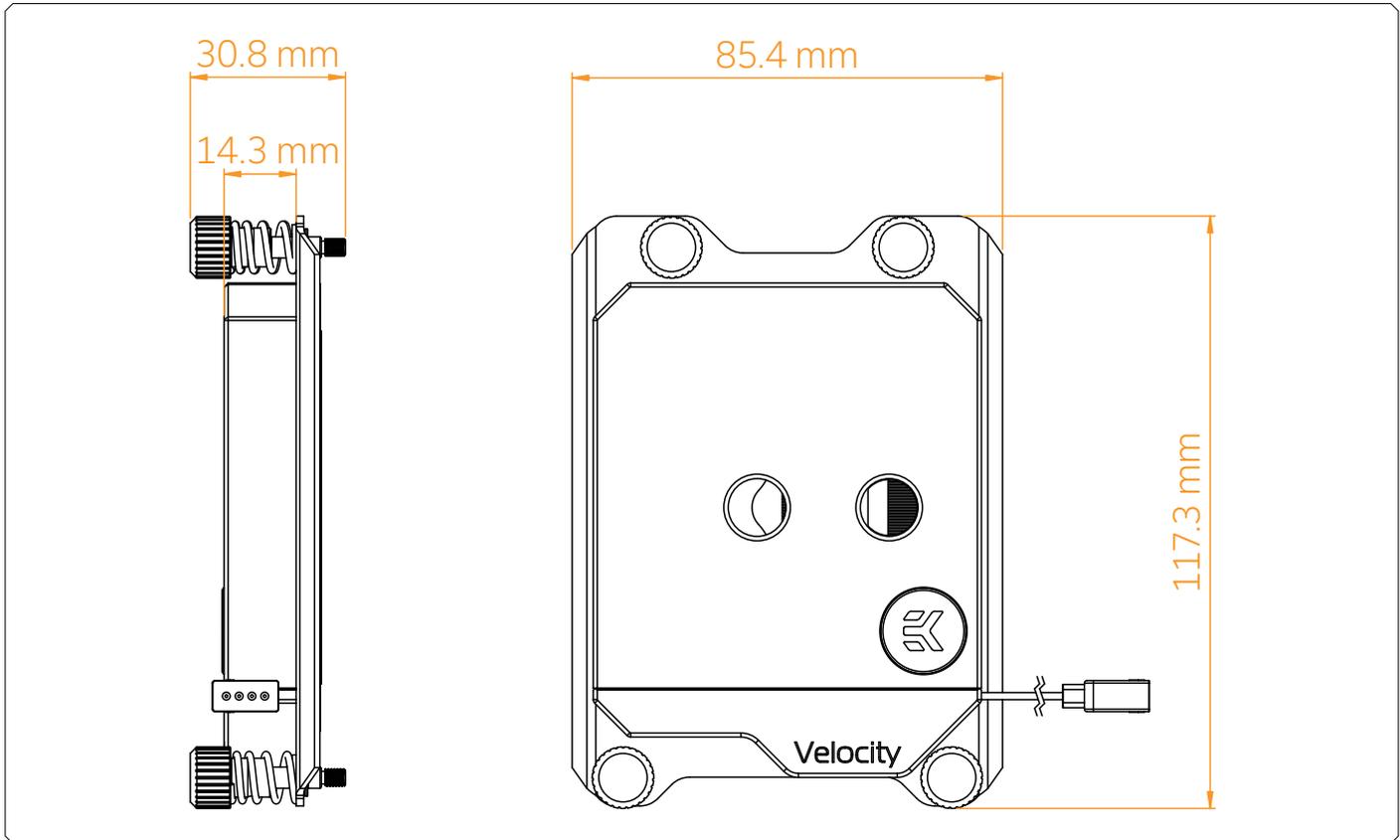


EK-Velocity sTR4 CPU water block (1 pc)



Thermal grease (1 pc)

WATER BLOCK DIMENSIONS



TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS

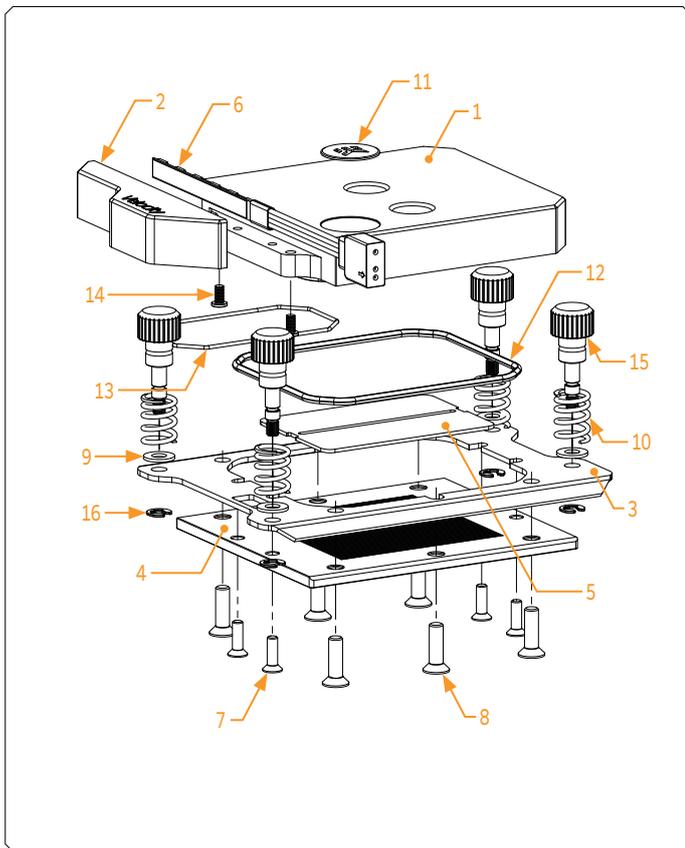
Technical Specification:

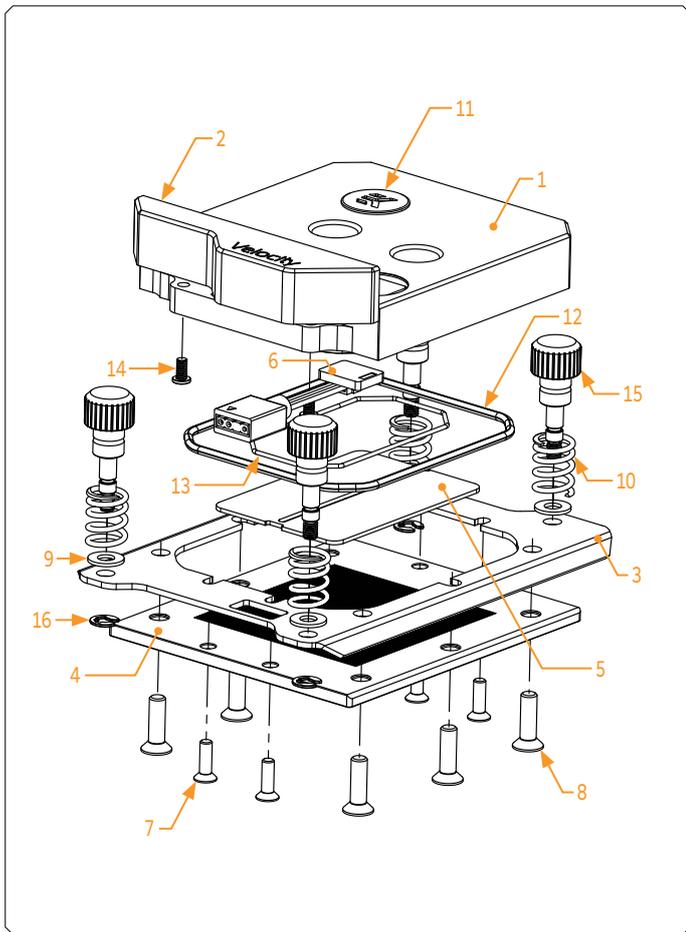
- Dimensions (L x H x W): 117x85x31 mm
- D-RGB cable length: 500 mm
- D-RGB LED count: 6
- D-RGB connector standard 3-pin (+5V, Data, Blocked, Ground)

Position	EAN	Description	Quantity
1	100612	TOP PLATE - Acetal	1
	100611	TOP PLATE - Plexi	
2	100618	STICKOUT - Black	1
	100617	STICKOUT - White	
3	100620	MOUNTING BRACKET - sTR4	1
4	100685	COLDPLATE - Nickel	1
5	100621	JET PLATE	1
6	100883	D-RGB LED Strip	1
7	8201	M3 x 10 DIN7991 Screw	4
8	8207	M4 x 14 7991DIN Screw	6
9	8616	Washer POLYAMID M4 x 0.8 mm	4
10	100158	Spring	4
11	100663	EK RGB Badge	1
12	104307	SEALING GASKET 1 - sTR4 - OR 72x2 EPDM70	1
13	101554	SEALING GASKET 2 - sTR4	1
14	9048	M2.5 x 5 AX1 Screw	2
15	100694	Thumb Screw Velocity sTR4	4
16	9033	Seegerring 3.2 DIN 6799	4



LED light is not included in all versions.



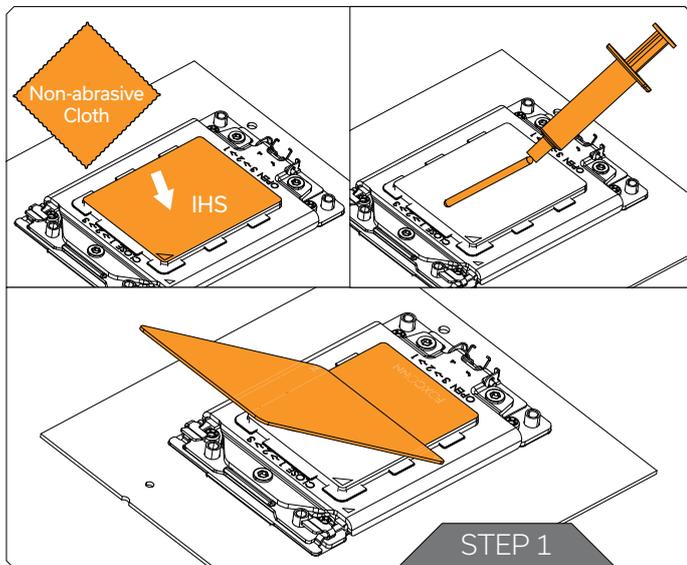


Technical Specification:

- Dimensions (L x H x W): 117x85x31 mm
- D-RGB cable length: 500 mm
- D-RGB LED count: 1
- D-RGB connector standard 3-pin (+5V, Data, Blocked, Ground)

Position	EAN	Description	Quantity
1	100614	TOP PLATE - Nickel	1
2	100618	STICKOUT - Black	1
3	100620	MOUNTING BRACKET - sTR4	1
4	100685	COLDPLATE - Nickel	1
5	100621	JET PLATE	1
6	102213	LED D-RGB PANEL	1
7	8201	M3 x 10 DIN7991 Screw	4
8	8207	M4 x 14 7991DIN Screw	6
9	8616	Washer POLYAMID M4 x 0.8 mm	4
10	100158	Spring	4
11	100663	EK RGB Badge	1
12	104307	SEALING GASKET 1 - sTR4 - OR 72x2 EPDM70	1
13	101554	SEALING GASKET 2 - sTR4	1
14	9048	M2.5 x 5 AX1 Screw	2
15	100694	Thumb Screw Velocity sTR4	4
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INSTALLING THE WATER BLOCK

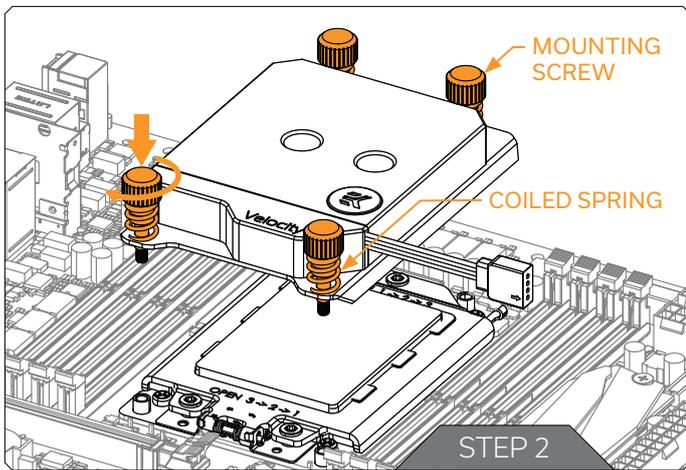


STEP 1

Cleaning the CPU: Wipe the CPU's contact surface (by using non-abrasive cloth or Q-tip, as shown on sample photo).

Applying thermal compound: EK recommends blob or line method of applying the enclosed EK-TIM Ectotherm (1g) thermal compound to the CPU heatspreader (IHS)

Applying thermal compound: On a clean IHS, apply a line of thermal compound and spread it over the whole CPU heat spreader (IHS) with a credit card or equivalent - see sample photo on left



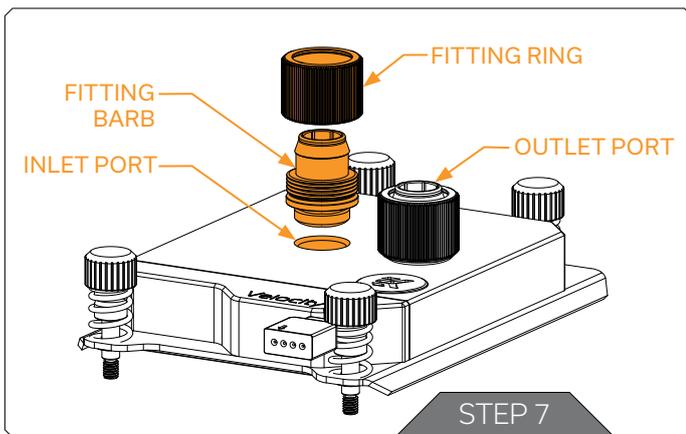
STEP 2

Align the water block properly on the motherboard, because the screws are not positioned in a square pattern.



Before proceeding with the installation, it is mandatory to remove the protective foil from the backside of the water block.

Start fastening two mounting screws at a time, preferably in cross pattern and do not tighten them fully until all of them are partially screwed in. Then - using your fingers only - screw in all four mounting screws until you reach the end of the thread.



STEP 3

Tighten the fitting barbs in clockwise direction until the gasket underneath is compressed.

The installation of the CPU water block is now complete.

With EK-Velocity series water blocks it is mandatory to use the port that is nearest to the center of the water block as INLET port. Mixing the ports may result in less than ideal thermal performance of the water block.

CONNECTING THE RGB LED STRIP (for full nickel version)

CONNECTING THE RGB LED STRIP

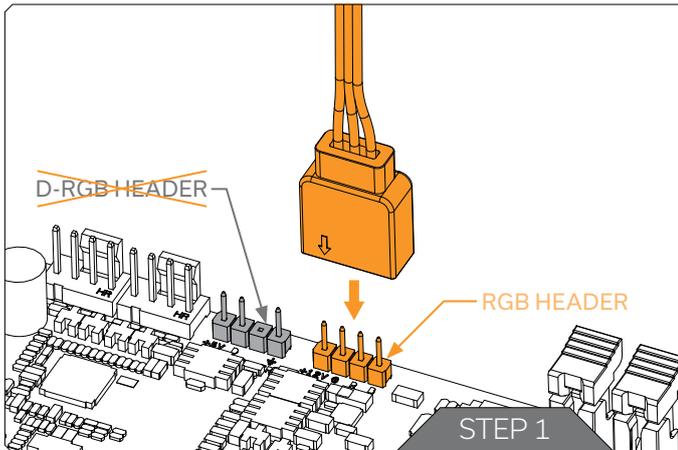
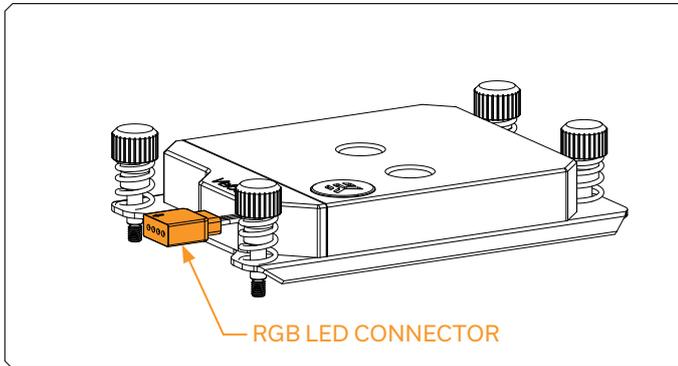
STEP 1

Plug the 4-pin connector from the water block and fan's RGB LED light to the RGB HEADER on the motherboard. The LED will work if the pin layout on the header is as follows: **+12V G R B**.

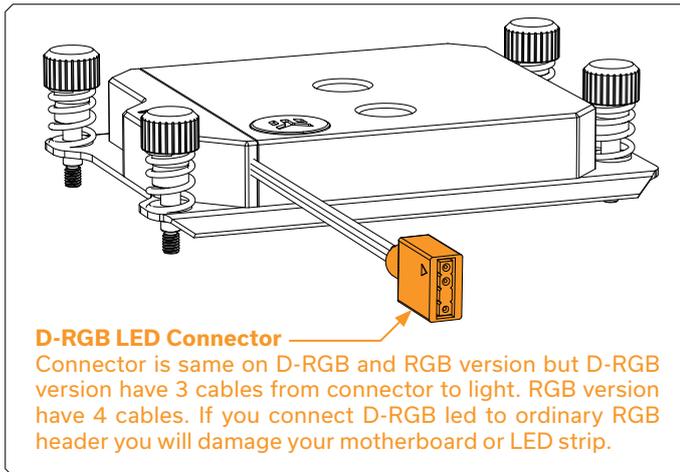
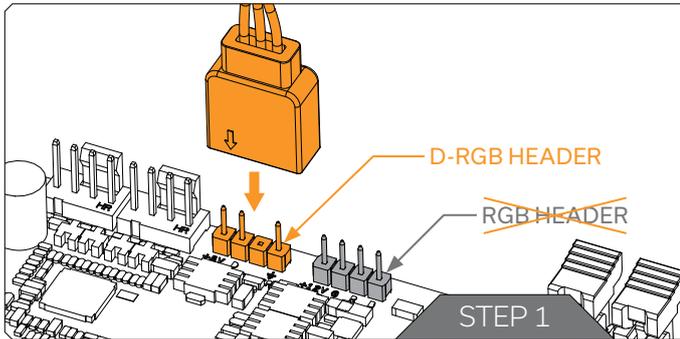


Please ensure that the arrow indicated on the connector is plugged into the +12V line as indicated on your motherboard.

Failure to do so will damage your motherboard or LED strip.



CONNECTING THE D-RGB MODELS



CONNECTING THE D-RGB LED STRIP

STEP 1

Plug the 4-pin connector from the water block's D-RGB LED light to the DRGB HEADER on the motherboard. The LED will work if the pin layout on the header is as follows: **+5V, Digital, empty, Ground**.



Please ensure that the arrow indicated on the connector is plugged into the +5V line as indicated on your motherboard. If you put LED Diode to the 12V RGB HEADER you can damage the LEDs.

Failure to do so will damage your motherboard or LED strip.



Connector is the same on D-RGB and RGB versions, but D-RGB version has 3 cables from connector to PCB; RGB version has 4 cables. If you connect D-RGB LED to ordinary RGB header you can damage your motherboard or LED strip.

SUPPORT AND SERVICE

In case you need assistance or wish to order spare parts or a new mounting mechanism, please contact:

<https://www.ekwb.com/customer-support/>

For spare parts orders, refer to the page with "TECHNICAL SPECIFICATIONS AND WATER BLOCK PARTS" where you can find the EAN number of each part you might need.

Include the EAN number with quantity in your request. Mounting Mechanism EAN can be found under "BOX CONTENTS"

Thermal pads are readily available in the EK shop

SOCIAL MEDIA

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