

Kjern-32u4HID-C

4-layer USB-C microcontroller board (USB HID) · Microchip ATmega32U4 MCU @ 16 MHz

Product name	Kjern-32u4HID-C
Manufacturer	Kjern (Rødseth), Enkeltpersonforetak
Organisation number	Org. no. 937 449 089
Registered location	Bergen, Norway
Contact	kontakt@kjern.no · kjern.no

2 TECHNICAL SPECIFICATIONS & OPERATING LIMITS

PARAMETER	RATING / LIMIT
Nominal input voltage	5 V DC, supplied via USB-C or the designated 5 V GPIO rail
Regulated logic rail	Onboard LDO 3.3 V output, intended strictly for onboard system loads and light logic interfacing
Overcurrent protection	Integrated 500 mA resettable polyfuse on the 5 V USB line
Operating environment	Indoor development, evaluation and prototyping use only
Electromagnetic environment	Normal environments only — not for industrial-heavy, medical, or automotive use
ESD sensitivity	ESD-sensitive device; exposed pads and castellated GPIO edges

Operating conditions. This product is designed and supplied for indoor use only, in a normal (non-industrial-heavy, non-medical, non-automotive) electromagnetic environment. It is an evaluation and prototyping device and is not qualified for deployment in safety-critical, life-support, industrial-control, or vehicular applications.

⚠ ELECTROSTATIC DISCHARGE (ESD) — HANDLING CAUTION

This board carries exposed component pads and castellated GPIO edges and is sensitive to electrostatic discharge. Standard ESD-safe handling practices — grounded wrist strap, ESD-safe mat and packaging, and controlled-humidity work area — must be observed during all handling and system integration. ESD exposure may cause immediate or latent permanent damage that is not covered by warranty.

3 SAFETY WARNINGS & MODIFICATION NOTICE

Exposed electronic circuitry. The product is supplied as a bare printed circuit assembly with exposed conductors, component pads, and castellated edges. Operate it on a non-conductive surface, keep it clear of metal debris, liquids and conductive contamination, and do not handle the board while it is powered unless ESD-safe precautions are in place. Provide adequate ventilation; components may become warm during normal operation.

■ WARNING — SOLDER-BRIDGE MODIFICATION REMOVES OVERCURRENT PROTECTION

The board exposes user-configurable solder bridges, including a polyfuse-bypass bridge. Any manual modification that bypasses the onboard 500 mA resettable polyfuse — by closing the bypass bridge or removing the fuse — **permanently removes primary overcurrent protection from the 5 V line** for as long as that modification is in place. A board modified in this way, and any host system into which it is integrated, is no longer fuse-protected against overcurrent or short-circuit faults, which may result in overheating, component damage, or a fire risk. Such modification is undertaken entirely at the integrator's own risk, and full safety responsibility for the modified assembly transfers to the integrator.

4 ENVIRONMENTAL & DISPOSAL NOTICES (WEEE)



In accordance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE), this product must **not** be disposed of as unsorted household waste. The crossed-out wheeled-bin symbol indicates that, at end of life, the product must be delivered to an authorised collection point for the recycling of electrical and electronic equipment (EEE). Correct separate collection and recycling helps conserve natural resources and prevents potential harm to human health and the environment that could arise from uncontrolled waste disposal. For the applicable collection scheme, consult your local waste-management authority.

Reference symbol asset: <https://static.kjern.no/legal/eu/weee.svg>

5 REGULATORY COMPLIANCE SUMMARY

This product is **CE marked**. The manufacturer declares, under its sole responsibility, that the Kjern-32u4HID-C conforms to the applicable requirements of the following EU directives:

- **Directive 2014/30/EU** — Electromagnetic Compatibility (EMC)
- **Directive 2011/65/EU** — Restriction of Hazardous Substances (RoHS)



CE marking
2014/30/EU



WEEE
separate collection



RoHS compliant
2011/65/EU

Declaration of Conformity. The official EU Declaration of Conformity for this product is available digitally on the manufacturer's website at **kjern.no**. This datasheet is provided for consumer information and product-safety purposes and does not itself constitute the Declaration of Conformity.