

HF | LF - Panel Reader **Kronotech - PH22**

- Support 13.56MHz & 125kHz
- Designed for 22mm mounting concept
- Integration into panel PC
- USB Type - A
- IP67 protection



HF | LF - RFID Reader Panel Mount Solution

The Kronotech PH22 HF | LF - RFID Panel Reader is an advanced RFID reader designed specifically for a secure and efficient access control on industrial machines. This RFID reader simplifies machine operation and enhances safety. It can be seamlessly integrated into switch panels and control cabinets within Industry 4.0 and automation environments.

Equipped with an integrated antenna, the PH22 achieves reliable read ranges of up to 30 millimeters in industrial settings. Its robust housing, compliant with IP65 standards, ensures exceptional durability even in challenging conditions.

Connectivity is made easy with versatile interface options, including USB (VCP or HID) and RS232, providing flexibility for integration into various system architectures.

The Kronotech PH22 Panel RFID Reader comes bundled with a comprehensive Software Development Kit (SDK), facilitating smooth development and integration into existing controller systems, Linux-based solutions, or Windows applications. Alongside detailed documentation and command protocols, the SDK includes a fully functional Windows-based demo application.

Common Applications

- Industrial Automation
- Machine Access Control
- Smart Manufacturing Systems
- Multi Factor Authentication
- Access Management

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TECHNICAL SPECIFICATIONS

PHI22HFLF	
Operating Frequency	13.56 Mhz / 125 kHz
HF Standard	ISO15693 / ISO14443A MIFARE Classic 1k, MIFARE Classic 4k, MIFARE Ultralight, MIFARE Plus, MIFARE DESFire, NTAG 213/215/216
LF Standard	EM410X, EM4X50, HITAG1, HITAGS, T5557, Q5
Communication Interfaces	USB (VCOM and Keyboard Emulation), RS232
Integrated Antennas	LF and HF antennas resin-encapsulated in the Top Cover
Reading Distance	As per HF/LF standards, sensitivity depending on the used tag
Compatibility	Compatibility: Integration into Panel PC Panel Thickness: 2.5 ... 4 mm Hole Diameter: 22 mm
Dimensions	Front: Ø28 mm x h 9 mm Rear: width 35 mm, height 45 mm, depth 23 mm
Operating Temperature	-20°C ÷ +65°C
Storage Temperature	-20°C ÷ +85°C
Humidity	IP67 (front side) Up to 95%, non-condensing
Reading Distance	Configuration Tool available with dedicated SDK (BLUEBOX® SDK) Compatible with main operating systems (Windows, Linux)
Backward Compatibility	Full backward compatibility with current HF and LF solutions (non-isofunctional HF/LF command remapping included in project costs)
Firmware	Evolution of current firmware (carrier board, LF and HF front-end) for integration into a single product.
Certifications	CE*, FCC, UKCA, Radio Tests, EMC Safety, SAR, IP, Shock & Vibration *To be evaluated – potential cybersecurity certifications.
Additional Hardware	Top Cover, Bezel, Spacer Customizations/variants and additional components (e.g. USB cable, illuminated bezel, etc.)