aprotech Kaspersky IoT company

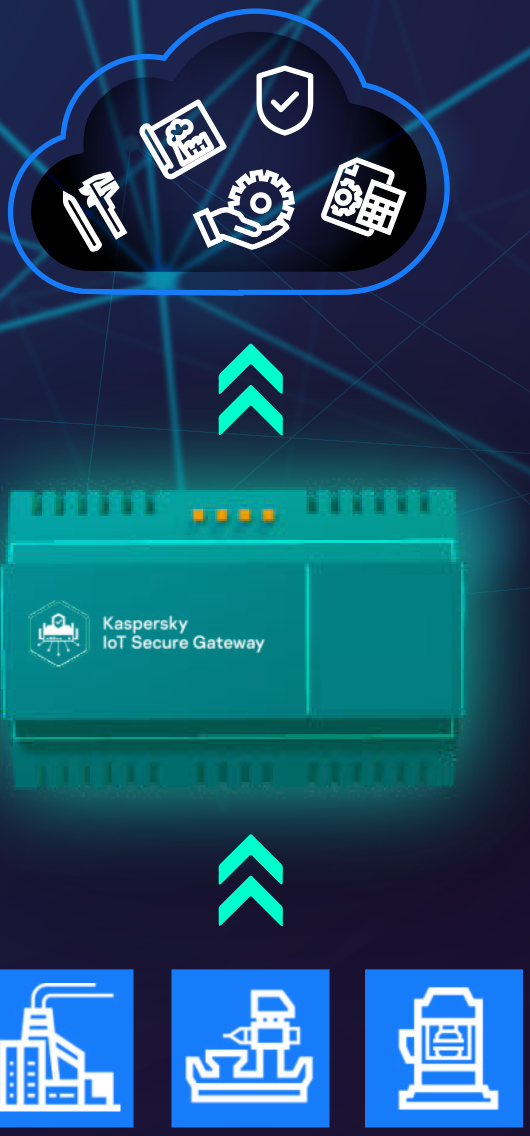
KasperskyOS
Operating system

Kaspersky IoT Secure Gateway

Cyber Immune gateways for connecting **PETROCHEMICAL EQUIPMENT** to clouds and business systems

Scenario №1

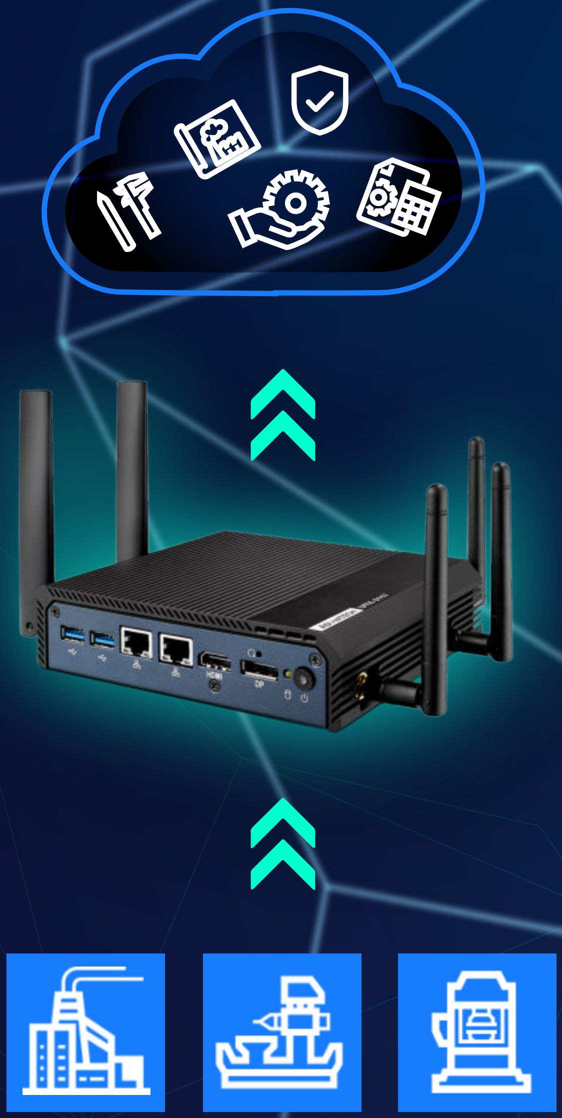
Gateway as a software data diode (one-way data transmission)



- **Safe and secure transport** of previously unavailable data for business
- **Trusted data received from the gateway help** to build digital analytics and equipment operation forecasting services
- **Operation monitoring** of drilling rigs to optimize weight and foresee equipment breakdowns
- **Connection and monitoring** of remote technological sites
- **Collection and transmission of parameters** to digitalize an oil terminal

Scenario №2

Gateway as a router (two-way data transmission)



- Sending security events via the Syslog protocol
- Safe and secure two-way data transport of previously unavailable data for business
- Detection of IDS/IPS intrusions to provide protection from external threats
- Cyberprotection of industrial equipment, DCS, APCS and SCADA systems from cyberattacks when connected to IT-systems and during data collection
- Data collection and transmission (CME) received from pumps and well cluster/oil field equipment, to optimize energy consumption and foresee equipment breakdowns, data transmission to demilitarized zone
- Protection and comprehensive data collection from processing equipment to create a digital twin of a technological process and an optimal control of a system
- Local storage of collected data (buffering), emergency data buffer
- Secure data collection and transmission from industrial equipment to DCS

Additional notes:

- Creation of ecosystem using Kaspersky Lab products such as KISG+KUMA+KSRW+KICS+ KSC to provide an end-to-end protection of a production site
- Centralized management of Kaspersky Lab products via Kaspersky Security Center