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General Features

BİLGE Pro Industrial Panel PC

BİLGE Pro Industrial Panel PC offers innovative solutions in industrial automation processes. It has a wide range of applications, from rivers to dams, underground wells to lakes, irrigation channels to flood control. Additionally, it is effectively used in various sectors, including meteorological stations, hydroelectric power plants, wind and solar energy facilities, wastewater management, coastal design, environmental studies, agricultural irrigation, and SCADA systems.

BİLGE Pro analyzes data obtained from connected sensors and generates detailed reports with AI support.

The device records data in the desired format and time intervals. Thanks to its built-in 4.5G modem module, it can transmit this data quickly and reliably. By combining both data logger and modem functionalities, it meets multiple needs with a single device. In terms of connectivity, BİLGE Pro is highly flexible, supporting various protocols such as RS-485, RTU Modbus, and 4-20mA. With its built-in GSM modem and LoRa module, it can communicate with IoT devices

without requiring a physical connection. These features enable real-time monitoring, data collection, and remote management of sensors located in remote areas. While sensor data is quickly transferred to SCADA systems, users can also issue commands to remote systems and manage processes efficiently. The extensive application range and flexible communication capabilities of BİLGE Pro allow it to easily adapt to diverse industrial requirements. With its high performance and reliability, it becomes an

indispensable part of industrial automation.



4 x Digital/4...20 mA Output 1 x RJ9H

5 x Analog/4...20 mA Input

1 x Charging Voltage Reading Input

Physical Characteristics

1 x Rj45 1 x SIM Card Slot 1 x HDMI 1 x Internal Battery Voltage Reading Input (Onboard)

1 x WiFi 5" LCD Touchscreen 6 x Digital Input 1 x Built-in Front Camera 1 x RS-232 (e.g., Modbus RTU)

1 x Built-in LoRa

2 x RS-485 (e.g., Modbus RTU) 1 x Built-in GSM (Onboard) 1 x Bluetooth 5.0 1 x Solar Panel Voltage Reading Input 1 x External SD Card Slot

1 x 3.5 mm Speaker Jack 1 x Internal Battery 3 x Antenna Port (SMA Connector)

Compatibility - Compatible with computers, mobile devices (Android and iOS), and web platforms. - Fully integrates with all SCADA systems that support RS-485 ModBus RTU.

- Fully compatible with the DSİ GÖZBİS system.

1 x USB 3.0

1 x USB 2.0

1 x Type-C

- **Technical Specifications**



Processor

RAM

Bluetooth BT 5.0 **HDMI**

ARM Quad-core 64-bit 1.8 GHz

2GB/4GB/8GB LPDDR4

32GB / 64GB / 128GB

Internal Storage

LoRa 433/868 MHz ISM, -139 dBm sensitivity 1.2kbps-115.2kbps data rateRange: 5km+

Compliant with FCC and ETSI standards **Internal Battery**

Version 2.0

3 Cell 3500mAh / 6 Cell 7000mAh / 9 Cell 10500mAh / 12.6V 18650 Li-ion battery Internal GSM LTE Cat 4 Module (supports 2G/3G/4G)

Al Performance 1 TOPS Supports: Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet

Read/Write Speed: 100-90 MB/s **Touchscreen Display** 5" (Optional: 7" and 10.1")

Frequency range: 900/1800/1900 MHz

Download speed: 150 Mbps / Upload speed: 50 Mbps

1 slot (Supports 4GB/8GB/16GB/32GB/64GB/128GB)

Interface HDMI 2.0, USB3.0, USB2.0, MIPI DSI, MIPI CSI, 12C, SPI, UART, ADC, PWM, GPIO, PCle, 12S, etc.

Ethernet RJ45 Port, 1000 Mbps **Operating Temperature** -20 / +60 °C

1920x1920 pixels, supports JPEG and PNG formats for saving.

Built-in Camera

Camera Monitoring System

2MP camera with recording and photo capabilities upon activation.

Yüksek Kalite Yayın

Motion Detection

Image Quality Supports 2/4/8 MP

On/Off with 4 configurable zones **Operating Conditions**

-40° C ~ +60° C / Less than 95% relative humidity

Night Vision WDR (120dB) / Day/Night (ICR) 3DNR, AWB, AGC, BLC / 8 IR LEDs for night vision

Recording Supports 720p, 1080p, 1440p, 2160p **Protection**

IP67-rated

Field of View

180°

Communication RTSP & MJPEG & TCP/UDP

SD Card Supports 16GB, 32GB, 64GB, 128GB, and 256GB SD cards **Internal Battery**

Socket Connections RJ45, USB, Wireless Audio Input/Output, Power, Alarm Input/Output

10,500 mAh

Interface Displays date, time, sensor information, and AGI location/details



Dimensions: 244.1 mm x 79 mm x 75.9 mm Net Weight: 0.815 kg

Enclosure Material: Metal

Enclosure Material: Metal Dimensions: 166.2 mm x

70 mm x 70 mm Net Weight: 0.48 kg





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