

## Interfaces:

- **Network**

## Management and connectivity:

- **Configuration**
  - Startup using WuTility (three clicks and you're done)
  - DHCP
  - Web-based management
- **Store and visualize**
  - Inventorying of Web-IOs using Web-based WuTility
  - Combine measuring values from different Web-IOs in measuring data profiles and create application-specific overviews
  - Database with measuring values from any number of Web-IOs directly in the box
  - Create Web-based visualization and control sites for Web-IOs via drag-and-drop using the Site Creator.

Here a YouTube video needs to be displayed!

You activate the video function using the following button, whereby you use the provider Google and (at your own risk in terms of data protection ;) share data with it.

Enter YouTube

To avoid such extra clicks in the future, try  
[eu-de-bonn@ec.europa.eu](mailto:eu-de-bonn@ec.europa.eu) (Regional representative of the European Commission in Bonn)  
or [support-de@google.com](mailto:support-de@google.com).

[View summary as PDF](#)

- **For your application**
  - Web server with HTTPS and PHP support
  - MySQL database and SQLite support
  - Run your own C/C++ programs and PHP script time- event driven or at system start.
  - 750 MB for your application data

## Power supply:

- **External**
  - Screw terminal
- **Power over Ethernet (PoE)**
  - Phantom power using data pairs
  - Power over unused wire pairs
- **Buffer capacitors**
  - controlled shutdown when disconnecting from the power supply

## Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance for industrial environments
  - Low noise emission for residential and business areas
- **5 year guarantee**

Wish for something!

[Your suggestions for improvement and additions](#)

---

### Processing the measurement values

By cyclically polling the Web-IOs a consolidated measurement database is created in the Motherbox. View recorded measurement data directly in the browser, access your application directly via the SQL interface for migrating the measurement data, or export them automatically via FTP.

Use the Motherbox as a visualization server. Use the integrated Site-Creator with drag-and-drop to create Web-based visualization and control pages for Web-IOs.

The internal web server also allows you to upload from your own web pages, which enables creation of web-based applications. For example you can prepare and display recorded measurement data for a specific application.

---

### Connections and displays:

- Network:
  - 10/100BaseT Autosensing/Auto-MDIX, RJ45
- Galvanic isolation:
  - RJ45 network connection min. 1500 V
- Power supply:
  - Power over Ethernet (PoE) or
  - 24 ... 48V DC (+/-10%) per screw terminal
- Supply connection:
  - Plug-in screw terminal
- Current consumption:
  - PoE Class 2 (3.84 ... 6.49W) and
  - typ. 90mA @ 24V DC with external supply
- Indicators and buttons:
  - System status using multi-color LED
  - Network speed and data transfer
  - Manual device reset

### Hard- and software

- Processor and memory:
  - Marvell 88F6180
  - Flash: 1 GB (NAND)
  - RAM: 128 MB (DDR2)
- Operating system:
  - BusyBox: v1.31.1
  - Kernel: v4.4.198
- Installed software:
  - ProFTPD: v1.3.6
  - NGINX: v1.16.1
  - Samba: v3.6.25
  - PHP: v7.2.25
  - MariaDB: v10.2.29
  - SQLite: v3.29.0

### Housing and other data:

- Housing:
  - Plastic housing with integrated DIN rail mount
  - 105 x 22 x 75mm (L x W x H)
- Weight:
  - approx. 100g
- Storage temperature:
  - -40 ... +70°C
- Operating temperature:
  - 0 ... 60°C
- permissible relative humidity:
  - 0 ... 95% relative humidity, non-condensing
- Scope of delivery:
  - Motherbox 3
  - Quick start manual
  - Product CD with WuTility management tool and manual