

Operating instructions for panel PC SlimLine WM Series

This documentation is applicable to all the versions of the product which are supplied.



The panel PC is designed solely for fixed installation in mechanical and plant engineering systems for normal machine applications and industrial use. The panel PC can be fitted with different front panels and housings.

The product designation also includes the following models:

- WM xx(W)-IB32-y (Celeron Bay Trail)
- WM xx(W)-IB70-y (Celeron Bay Trail)
- WM xx(W)-ID31-y (Atom N2600)
- WM xx(W)-ID32-y (Atom D2550)
- WM xx(W)-ID70-y (Atom D2550)
- WM xx(W)-ID32-y (Atom D)
- WM xx(W)-IH32-y (Core i 4th and 5th Generation)
- WM xx(W)-IH70-y (Core i 4th and 5th Generation)
- WM xx(W)-IV70-y (Core i 3rd Generation)

The following applies:

xx: Diagonal display measurement in inches

(W): Aspect ratio widescreen or widescreen format (optional)

y: Codes for further options

Please note the safety information in the general operating instructions supplied with the product!

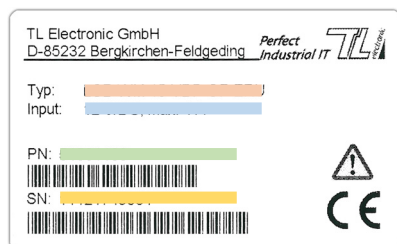
Also available with the product designation (see type plate) under <https://www.tl-electronic.de/download/driver>:

- IH70 SBC Mainboard Manual (English)

Product labelling

Type plate

The type plate is located on the rear of the product.



- Product designation
- Mains supply
- Product number
- Serial number

CE marking

CE The product meets the requirements set out in the EMC Directive 2014/30/EU.

For the product with optional wireless equipment: 3G, 4G, WLAN

CE **EU declaration of conformity:** TL Electronic GmbH hereby declares that the WM type radio equipment complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following Internet address: <https://www.tl-electronic.de/download/driver>

Ambient conditions

Protect the product from dust, moisture, heat and mechanical stress, such as strong vibrations and impact. Keep the product out of direct sunlight. Install the product in such a way that it does not constitute a hazard (e.g. so that it cannot tip over or fall down).

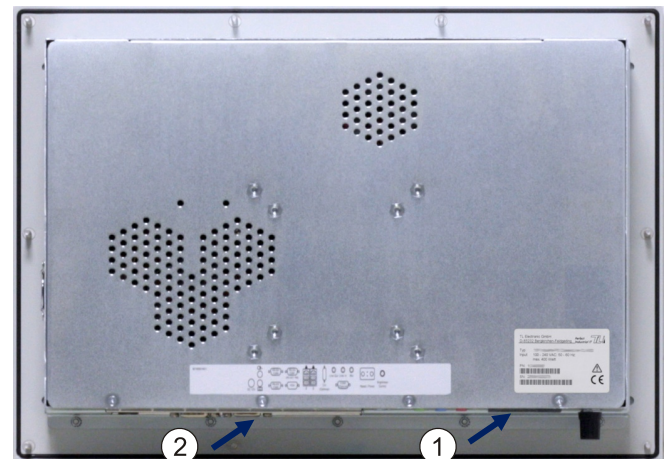
Operation

Operating temperature	0 °C to 50 °C (products with active cooling) 0 °C to 45 °C (fanless products)
Atmospheric humidity	10 % to 90 % non-condensing

Transport and storage

Storage temperature	-20 °C to 65 °C
Atmospheric humidity	10 % to 90 % non-condensing

Overview

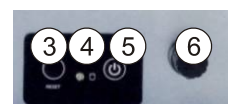


Rear (example product picture)

1. Controls
2. Connections and interfaces

Controls

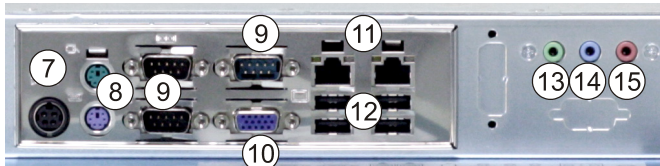
The controls are located on the back of the product at the bottom.



Bottom rear (example product picture)

3. **Reset button:** restarts the system
4. **LEDs:** status indicators
green power supply switched on
yellow or red access to hard disk
5. **On/off switch:** switches the product on or off
6. **Brightness control:** adjusts the display brightness (depends on configuration)

Connections and interfaces



Underside (example product picture)

7. Power supply (depends on configuration – see following section)
8. PS/2 mini-DIN connector
9. Serial interfaces (COM)
10. VGA output
11. RJ45 Ethernet
12. USB ports
13. Audio: line in
14. Audio: line out
15. Audio: microphone

Power supply

▲ Risk of damage to the product! Check the information on the input voltage range on the type plate before connecting. Use the mains adapter supplied with the product!

▲ Risk of damage to the product! When installing the product in a housing, make sure that the terminals on the terminal block cannot be short-circuited by metal parts or tools!

The power supply socket is located on the rear of the product at the bottom and depends on the configuration.



16. Power supply socket or
17. Terminal block for power supply connection

Operation

Plug the power supply cable into the power supply socket on the product and then connect it to the mains supply.

Switching on

The product is fitted with an on/off switch on the rear. Press the on/off switch to start up the product.

The function of the on/off button can be deactivated by a BIOS option or a hardware modification. The product can then be switched on together with other machines via a central circuit.

Switching off

First shut down then switch off! The operating system must be shut down first and then the product may be switched off. Otherwise the system may be damaged in such a way as to prevent the product from starting up again.

▲ The product is **not** completely disconnected from the power supply when the on/off button or mains switch is switched off!

Rights should be assigned in the control software in such a way that users who are not allowed to close the software are also denied permission to switch off the product. If the product is switched off during a write operation, this file will be destroyed. Control software usually executes write operations automatically every few seconds, so damage can very easily be caused by switching off while the software is running.

Technical data

Dimensions (W × D × H)	Depends on configuration
Weight	Depends on configuration
Protection class	IP20 (with basic equipment)
Wireless capabilities	Optional: 3G, 4G, WLAN
Supply voltage	External mains adapter
Power input	12 / 24 / 12-24 / 9-36 / 15-40 V DC (depends on configuration – see type plate)

Service

Contact details

Tel.: +49 (0)8131 33204-130
 Fax: +49 (0)8131 33204-150
 email: service@tl-electronic.de

If you contact the service staff, please have the serial number ready which can be found on the type plate on the product.

Company headquarters

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