

Operating instructions

These general instructions for use apply to industrial PCs, industrial monitors, industrial PDAs, panel PCs, tablet PCs and vehicle-mounted computers.



Please read these general operating instructions and the specific operating instructions enclosed with the product in any given case before using the product. Follow the safety instructions.

These **general operating instructions** contain information on safety, start of operation, maintenance, transport, storage, disposal and after-sales service.

The **specific operating instructions** contain data on the product, its parts, application, connections, technical data and information on its operation.

Detailed information about the product in English can be downloaded from our website.

All the documents relating to your product can be found at the following address:

<https://www.tl-electronic.de/download/driver/>

The exact designation of the product can be found on the type plate.

Safety instructions

Intended use

The product may only be used in industrial environments. The product is **not** designed for use in potentially explosive atmospheres. Note the information in the specific operating instructions regarding the use and environmental conditions. Only then is the safe operation of the product guaranteed.

Duties of the owner / operator

The owner/operator is required to make sure of the following:

- that the product is only operated as intended and in perfect working order.
- that the operating instructions are available at all times.
- that the product is operated and serviced by trained staff only.
- that the product housing is opened by qualified electricians only.
- that the safety and warning notices affixed to the device are not removed and remain legible.

Always comply with the national regulations regarding inspections which are to be repeated at regular intervals. Arrange for these checks to be carried out in good time.

Qualifications of personnel

The product may only be put into service and operated by personnel who have the specialist training required and the knowledge of the relevant regulations necessary to be able to carry out the work assigned to them and to recognise potential hazards. Any work on the product involving contact with its electrical connections, circuit boards, electrical components and electronic components may only be carried out by a qualified electrician.

Hazards

▲ Risk of suffocation and injury! Keep the product and the packaging material out of the reach of children!

▲ Fire hazard! Do not insert any objects into the product through the slots and openings. Never cover air vents. This could lead to a short circuit / fire.

LCD screen

▲ Risk of injury! Do not touch the display with sharp objects or place heavy objects on the display. You could injure yourself on a broken LCD screen. Always wear gloves if you have to touch broken parts. Then wash your hands with soap.

Housing

▲ Risk of electrocution! If the housing is damaged or if liquids have penetrated into the product, switch off the product immediately and contact our after-sales service department.

▲ Risk of electrocution! Never open the product housing when the power supply is connected! There is a risk of electric shock or a short circuit.

Mains adapter or plug

▲ Risk of lightning injuries! Never use the product with the mains adapter or plug connected during thunderstorms. It could be damaged and could put you at risk of lightning injuries.

▲ Risk of electrocution! Never open the mains adapter housing. The housing does not contain any parts requiring maintenance. Never repair a defective mains adapter or plug.

▲ Risk of electrocution! If you notice damage to the mains adapter, cable or plug, switch off the product immediately. Replace the damaged mains adapter or plug with an original spare part immediately.

▲ Risk of electrocution! Never tamper with a mains plug which does not fit in your socket. Contact the after-sales service department to obtain a power supply unit which is suitable for your area.

Mobile products

▲ Risk of electrocution / explosion / damage to the product! Never place the product near sources of heat, such as radiators or ovens, or in magnetic fields, such as occur within a 13 cm (5 in) radius of televisions, refrigerators, motors or large loudspeakers. Do not expose the product to high levels of humidity or to situations in which water may enter the product.

▲ Risk of serious life-threatening accidents! Danger to other road users! Never use the product while driving. It will cause a distraction and prevent you from concentrating fully on the traffic. This can lead to serious accidents. Park your vehicle in a safe place before using the product.

Basic safety measures

Connection / cabling

▲ Risk of electrocution! Check that you have the correct mains voltage. Refer to the product information on the type plate. The socket must be close to the product and easily accessible. Use only the mains adapter or plug supplied with the product. Only operate the mains adapter or plug for your product in earthed mains sockets with 100-240 volt alternating current at 50-60 Hz. If you are not sure about the power supply specifications, please ask

your energy provider.

Never connect or disconnect cables during thunderstorms.

When disconnecting a cable, always pull on the plug – never pull on the cable.

Position the cables so that they cannot be stepped on or tripped over. Do not place any objects on the cables as they could be damaged.

Opening the housing and repairs

⚠ Risk of life-threatening injuries and property damage due to unauthorised opening and improper repairs!

Repair work may only be carried out by authorised service personnel of the manufacturer (see section entitled "Service").

The product housing may only be opened by qualified electricians! Before opening the housing, disconnect the power supply and all peripheral devices plugged into the product.

Damage may occur when working with the housing open if metal objects like screws or tools fall onto printed circuit boards, if internal connecting cables are removed or inserted during operation, or if expansion cards are removed or installed when the product is switched on.

System extensions

Only system extensions which are intended for this product may be installed. Installing other extensions may damage the system or breach the safety regulations. The warranty will be null and void if you damage the product by installing or replacing system extensions.

Batteries / rechargeable batteries

⚠ Risk of explosion if batteries are not replaced properly!

Batteries in the product may only be replaced by qualified personnel. Replace the battery only with the same type or an equivalent type recommended by the battery manufacturer.

⚠ Risk of explosion and release of hazardous substances!

Charge the batteries only with the units supplied with the product. Do not use the batteries / rechargeable batteries with other devices. Never throw batteries / rechargeable batteries into the fire, do not solder on the cell body, do not open or short-circuit them, do not reverse the polarity, do not throw them, do not expose them to high pressure and do not heat them above 100°C. Protect them from direct sunlight, moisture and condensation and dispose of them properly.

ESD guidelines

ESD (electrostatic-sensitive devices) can be identified by the adjacent label.



Follow these guidelines if you are handling ESD:

- Drain away any static before working with ESD (e.g. by touching an earthed object).
- Any implements and tools used must be free of static electricity.
- Always disconnect the device from the power supply.
- Only touch the ESD at the edge.
- Do not touch any terminal pins or conducting tracks on an ESD.

Start of operation

Please follow the specific instructions enclosed with the product.

Unpacking the product

Check the package for visible signs of damage sustained in transit and check that the contents are all present and correct with reference to your purchase order.

If the product has sustained damage in transit or if a different product has been delivered from the one you ordered, please inform our after-sales service department (see section entitled "Service").

Keep the original packaging for future transport.

Installation

Note the instructions in the section entitled "Intended use".

Note the "ambient conditions" in the specific operating instructions for the product.

Connection

See the specific operating instructions for the product.

Before connecting external peripheral devices and/or systems, read the documentation supplied with these devices or systems! Make sure that the peripheral devices or systems are compatible with your product.

Follow the steps in the order listed below when connecting peripheral devices:

1. Switch off all the devices which are to be connected.
2. Disconnect all the devices which are to be connected from the power supply.
3. Plug all the cables into the product and into the devices which are to be connected.
4. Plug all the data transmission lines (where present) into the data / telecommunication network connections provided.
5. Connect all the devices to the power supply again.

Switching on

Plug the power supply cable into the power supply socket on the product and then connect it to the mains supply. Make sure that the mains voltage is correct.

The exact position of the on and off switches can be found in the specific operating instructions enclosed with the product.

When you switch on the product, the operating system (if ordered) will start up. All the required drivers are already installed.

If you ordered the product without the operating system, you will subsequently need to install this and the driver software for the built-in / connected additional hardware yourself. Follow the instructions in the documentation for the operating system and the corresponding devices.

Disconnecting the product from the mains supply

In order to disconnect the power supply to the product, always remove the power plug from the socket first and then remove the plug from the product. The mains adapter or the product may be damaged if this process is carried out in the reverse order. Always take hold of the plug when removing it from the socket. Never pull on the cable!

Operation

See the specific operating instructions for the product.

Maintenance

The products do not generally require any maintenance. However, please observe the specific operating instructions for the product.

Switch off the product and all the systems connected to it before cleaning. Disconnect the product from the power supply. The product can be wiped down with a soft, damp cloth. Do not use caustic cleaning agents, thinners, scouring agents or hard objects which could cause scratches.

Repair work may only be carried out by authorised service personnel of the manufacturer.

Transport and storage

Note the ambient conditions for storage in the specific operating instructions for the product.

The built-in components are sensitive to strong vibrations and impact. Protect the product from mechanical stress during transportation. Only use the original packaging for shipping and transport!

Risk of damage to the product! If you transport the product in cold weather and the product is exposed to relatively large temperature differences, make sure that no moisture (condensation) is deposited on and in the product.

If the product is affected by condensation, wait approximately 12 hours before switching the product on.

Disposal

The product must be taken apart and completely disassembled for disposal. Metal housing parts can be recycled. Electronic components, such as drives and printed circuit boards, must be disposed of in accordance with the national legislation on waste electrical and electronic equipment. The local statutory regulations must be adhered to in respect of plastic components and batteries.



Liability

Warranty and liability

Our general terms and conditions ("Allgemeine Geschäftsbedingungen" - AGB) apply as a general principle. These are available to the owner / operator from conclusion of the contract at the latest. Warranty and liability claims may not be made for personal injury and property damage if they are attributable to one or more of the following causes:

- Improper use
- Incorrect installation, commissioning, operation, repair or maintenance
- Operation with defective safety devices or with improperly mounted or non-functioning safety and protective devices
- Failure to follow the instructions in the operating manual regarding transportation, storage, installation, start-up, operation, limits or maintenance
- Unauthorised modifications

- Insufficient monitoring of parts subject to wear and tear
- Disaster situations caused by the impact of foreign objects and force majeure

Additional exclusions apply in the case of software to the effect that claims may not be made on the warranty in the following cases:

- Claims for defects which cannot be avoided in view of the applicable industry standard at the time of delivery or performance, taking into account the intended use and price, with the exception of defects which the customer cannot reasonably be expected to accept
- Claims in relation to software copies not supplied by us
- Claims in the event of modifications to the software by the customer, even if the fault occurs in an unmodified part, unless the fault can be shown to bear no relation to the modification

Liability conditions

Duly qualified personnel must ensure that the application or use of the product meets all the safety requirements, including all the applicable laws, regulations, stipulations and standards.

The documentation has been carefully prepared. However, the products are constantly being developed. Therefore the documentation is not always completely checked for compliance with the performance data, standards or other specified characteristics. None of the statements contained in these operating instructions constitute a guarantee or an indication of the applications presupposed under the contract.

If the manual contains technical errors or typing errors, we reserve the right to make changes at any time and without notice. No claims can be made for changes to products already delivered on the basis of the information, illustrations and specifications in this documentation.

Disclaimer

We have checked the documentation for conformity with the relevant hardware. Instances of nonconformity cannot be ruled out, however, therefore we cannot furnish any guarantee of complete conformity. The information is checked regularly and any necessary corrections are included in subsequent editions.

Service

We offer a comprehensive package of after-sales service and support in the interests of providing you with fast and professional assistance in case of any questions regarding our products.

Our package of technical support includes the following:

- Repair service
- Spare parts service
- Hotline 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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