



**S2 KONNECT**

**S2Konnnect S-8180T**  
**Unmanaged Gigabit Ethernet Switch**  
**User Manual**

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This manual refers to the S2Konnnect S-8180T Unmanaged Switches. Contents are subject to change without notice.

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If you have comments on this documentation, please send to:

**S2Konnnect GmbH**  
Siemensstrasse 23  
76275 Ettlingen / Germany  
<http://www.s2konnnect.com>

## Conventions

The following conventions apply to this manual.

### Warning and Notes



Used to indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury. Example: dangerous voltage.



Used to indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. Example: electrostatic discharge.



Used for additional information and advice.

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## Safety Precautions

To protect yourself from injuries and avoid damage to the S2Kconnect S-8180T Unmanaged Switches, always observe the following safety instructions.

### Avoiding injuries



Electrical current!

Electrical current from power, phone, and communications cables can be hazardous. Never touch any electrical elements with bare hands.

To avoid potential shock hazards:

- Do not carry out any installation, maintenance, or (re)configuration work during a thunderstorm.
- Do not connect or disconnect any power cables during a thunderstorm.
- Unplug this device from its power source before cleaning. Use only a slightly dampened label. If you are not sure of the type of your local power supply, consult your dealer or the local power company.
- Do not pinch, crimp or otherwise damage the power cord. If exposed to foot traffic, ensure that the cable is properly shielded and does not pose a tripped hazard.
- If using an extension cord, make sure the total ampere rating of the products using the cord does not exceed the extension cord's ampere rating.
- Do not attempt to service this device, as opening or removing casing may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
- The S2Kconnect S-8180T Unmanaged Switches should be serviced by qualified service personnel under the following conditions:
  - The power cord is damaged or frayed.
  - Liquid has been spilled onto the product.
  - The product has been exposed to rain or water.
  - The product does not operate normally in accordance with the operating instructions.
  - The device has been dropped or the casing had been damaged.



Electrical installations must comply with the safety regulations of the country in which they are operated.

### Avoiding damage



Electrostatic discharge!

Electrostatic discharge may damage or destroy the S2Kconnect S-8180T Unmanaged Switches.

To avoid damaging the S2Kconnect S-8180T Unmanaged Switches observe the following:

- Never use force when working with the S2Kconnect Unmanaged Switches.
- Do not place the S2Kconnect Unmanaged Switches on an unstable surface. The device may fall causing serious damage to the device.

# 1 Installation of the S2Kconnect Unmanaged Switch

The installation of the S2Kconnect S-8180T Unmanaged Switches is easy. The unit may be used for rack, wall or on table installation.

## Installation on a Level Surface

To install the S2Kconnect Unmanaged Switch on a table or similar, attach rubber feet on each marked location on the bottom of the device to avoid slipping of the device and scratches on the surface. After putting in the power cord the green Power LED should light up.

→ please place the S2Kconnect Unmanaged Switch on a robust level surface that can support at least 2.5kg (5.5lb) of weight.

## Installation on a Wall

To install the S2Kconnect Unmanaged Switch on the wall, proceed as follows:

1. Attach the brackets at each side of the S2Kconnect Unmanaged Switch using the supplied screws.



Figure 1. Wall Installation

2. Hold the S2Kconnect Unmanaged Switch against the wall and mark the wall through the holes of the brackets.
3. Drill holes in the wall for the brackets.
4. Hold the S2Kconnect Unmanaged Switch against the wall ensuring that the drilled holes align with the holes of the brackets.
5. Insert a dowel (not supplied) to provide better support.
6. Screw the S2Kconnect Unmanaged Switch on the wall using the supplied screws.
7. Tighten all screws.
8. Plug in the power cord.
9. Turn on the S2Kconnect Unmanaged Switch. The green Power LED should light up indicating that the power supply is ok.





Make sure that the wall is capable of supporting the S2Kconnect Unmanaged Switch. The S2Kconnect Unmanaged Switch must not be exposed to direct sunlight or be installed near heating vents. The location should be ventilated to prevent overheating.

## Installation in a Rack

To install the S2Kconnect Unmanaged Switch in a rack, proceed as follows:

1. Attach the brackets at each side of the S2Kconnect Unmanaged Switch using the supplied screws.
2. Insert cage nuts into the mounting rail of the rack.
3. Hold the S2Kconnect Unmanaged Switch against the rack ensuring that the bracket holes align with the holes of the rack.
4. Screw the S2Kconnect Unmanaged Switch on the rack using the supplied screws.

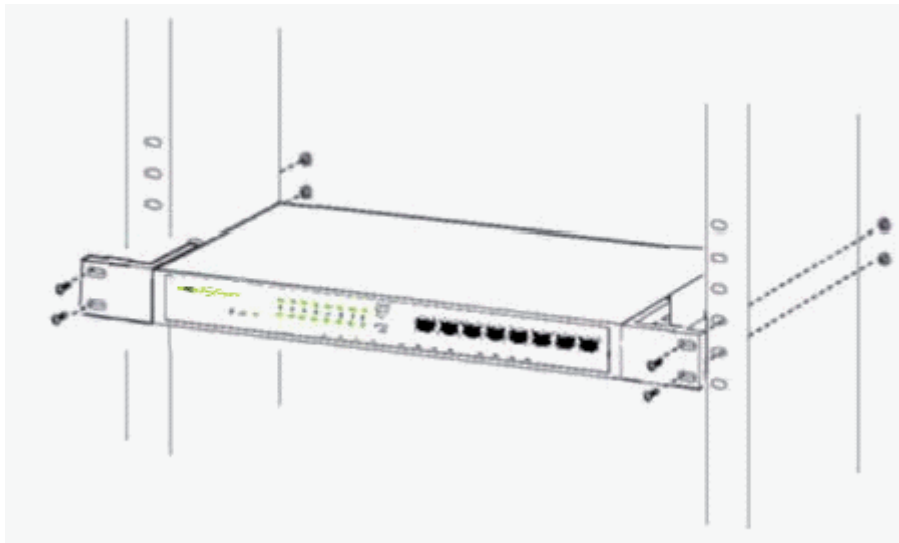


Figure 2. Rack Installation

5. Tighten the screws.
6. Plug in the power cord.
7. Turn on the S2Kconnect Unmanaged Switch.

The green Power LED should light up indicating that the power supply is ok.



The S2Kconnect Unmanaged Switch can be installed in racks, which are at least 48.3cm/19 inches deep.

## 2 Connection of the S2Kconnect Unmanaged Switch

This chapter describes the physical connection of the S2Kconnect S-8180T Unmanaged Switches to other Switches as well as to a network system.

### Transmission Distances

All ports of the switch are supporting 10/100/1000BaseT connections on Copper Category 5 unshielded twisted pair cable with a maximum distance of 100m.

### Connection to the Network

You can connect the S2Kconnect S-8180T Unmanaged Switches to a network station or even uplink them to a network server. Thus, by connecting smaller network segments through a switch you can expand the transmission range of your overall network.

In order to connect the S2Kconnect Unmanaged Switch to a network, proceed as follows:

1. If possible, disconnect the S2Kconnect Unmanaged Switch from the power supply.
2. At one end of the cable connect the RJ-45 connector to the port on the S2Kconnect Unmanaged Switch (see figure 3).

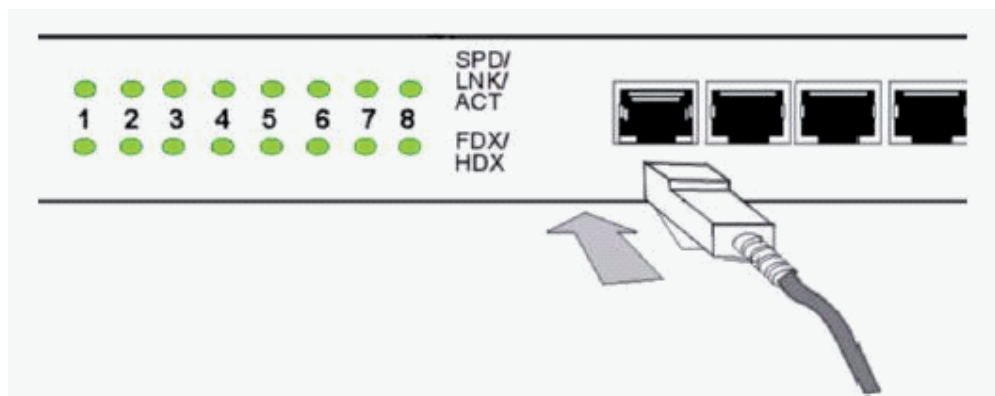


Figure 3. Connection of the RJ-45 / plug

3. At the other end of the cable connect the connector to the port on the network device. The port type (e.g. 1000Base-T) on the network device and that in the S2Kconnect Unmanaged Switch must be identical.
4. Reconnect the S2Kconnect Unmanaged Switch to the power supply.
5. Turn on the network device and the S2Kconnect Unmanaged Switch.
6. Check the SPD/LNK/ACT LED belonging to the port you plugged in the plug to find out if the cable is connected correctly.  
If the LED is on, the connection is established and active. Otherwise you have to check the S2Kconnect Unmanaged Switch more closely (for details, refer to section "LED Displays" on page 13).

## Connection to other Switches

The S2Kconnect Unmanaged Switch can be connected directly to the port of another switch (or hub) as each port of the S2Kconnect Unmanaged Switch supports Auto MDI and MDIX functionalities.

In order to connect two Switches with one another, proceed as follows:

1. If possible, disconnect the Switches from the power supply.
2. At one end of the cable connect the RJ-45 connector to the port on the S2Kconnect Unmanaged Switch (see figure 4).

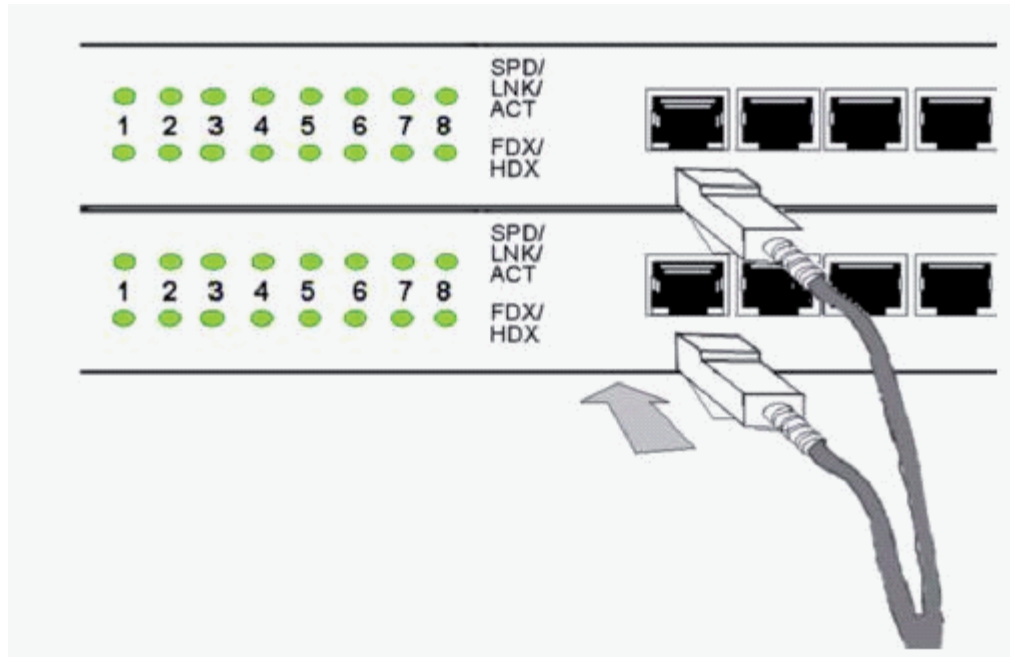


Figure 4. Connection Switches

3. At the other end of the cable connect the connector to the port of the other switch. The port type (e.g. 1000Base-T) of both Switches must be identical.
4. Reconnect both Switches to the power supply.
5. Turn on the Switches.
6. At the S2Kconnect Unmanaged Switch check the SPD/LNK/ACT LED belonging to the port you plugged in the plug to find out if the cable is connected correctly. If the LED is on, the connection is established and active. Otherwise you have to check the S2Kconnect Unmanaged Switch more closely (for details, refer to section "LED Displays" on page 13). If possible, check the LED on the other switch in the same manner. If the LED should not light up, refer to the appropriate switch manual to find the error.



Keep attention to use only one cable to connect two Switches. The use of multiple cables can create a loop and cause collisions.

### 3 Features

The S2Konnnect S-8180T Unmanaged Switches are designed for easy installation and high performance in environments with varying traffic loads and multiple users.

## Front Panel

The front panel of the S2Konnnect Unmanaged Switches consists of the power LED, link and status LEDs and RJ-45 ports.

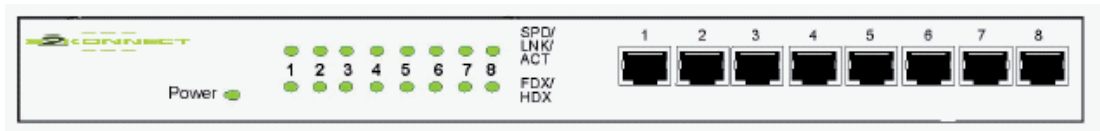


Figure 5. Front Panel of the S-8180T

All 8 ports with RJ-45 connectors can negotiate full- and half-duplex modes automatically. They may be connected to 10Base-T, 100Base-T, and 1000Base-T devices.



For the operation at 1000 Mbit/s Gigabit Ethernet speed Category 5 cables must be used.

LEDs indicate the status of the S2Konnnect Unmanaged Switches and the speed of transmission of each port.

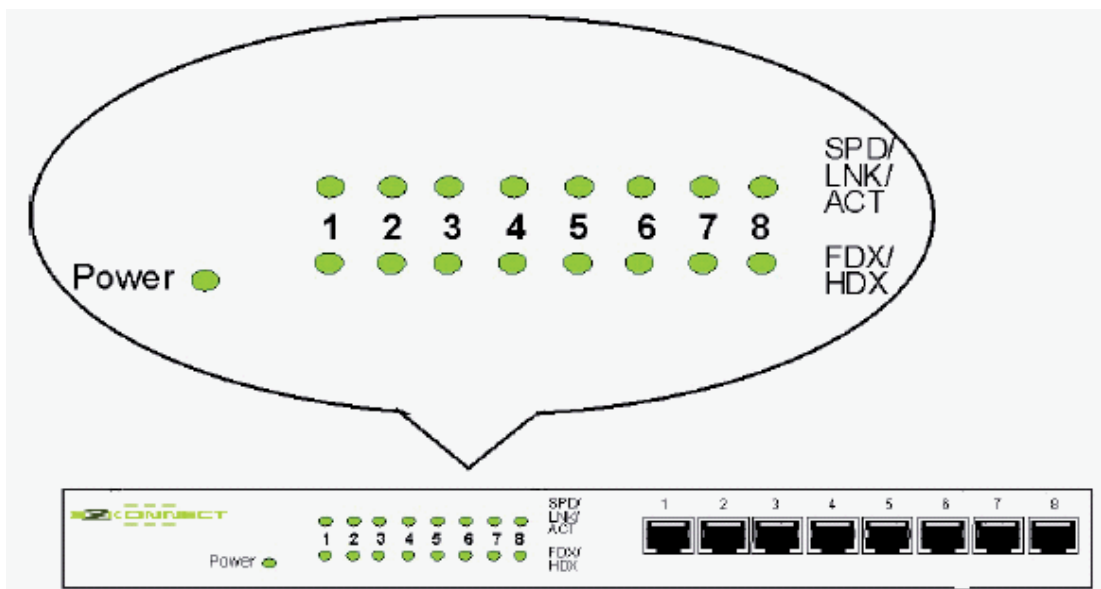


Figure 6. Location of the LEDs

The LEDs of the S2Kconnect S-8180T Unmanaged Switches have the following meaning:

Marking on panel	Color	Status	Description
Power	Green	Off On	Power off Power on
SPD/LNK/ ACT	Green Green  Yellow  Yellow	Off On Blinking  On  Blinking	No link established 1000 MBit/s link established, no data is transferred 1000 MBit/s link established, and data is transferred  10 MBit/s link or 100 MBit/s link established, no data is transferred  10 MBit/s link or 100 MBit/s link established, and data is transferred
FD/HDX	Green Green	Off On Blinking	Operation in half-duplex mode Operation in full-duplex mode Collision detected at the port

## Rear Panel

The rear panel accommodates the plug socket for connection of a standard three-pin power plug. The S2Kconnect Unmanaged Switches automatically adjust their power setting to any supply voltage in the range of 100 to 240 VAC at 50-60 Hz.

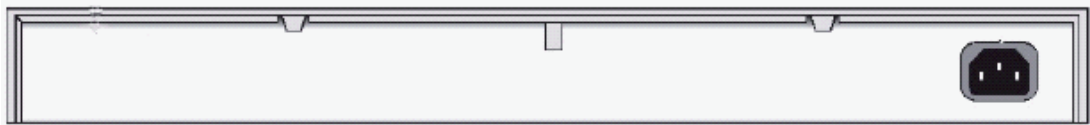


Figure 7. Rear Panel of the S2Kconnect S-8180T

Power consumption: 0,75A @100V

## 4 Important Information

### Technical Support

If you encounter any problems, read the relevant section of the manual. If you cannot solve your problems, consult our technical support.

If you contact our technical support engineers, have the following information ready:

- switch type
- configuration of your network
- type of cabling
- system documentation

Our support team can be reached following the instructions on our website.

Please go to [www.s2kconnect.com](http://www.s2kconnect.com), support section.

You will also find the procedure for returning a switch for repair on that section.



S2Kconnect cannot accept any returned product without an RMA number on the outer packaging. The warranty does not apply to products that have been damaged by electrostatic discharge or inadequate packaging



## S-8180T - 8 Port Gigabit Ethernet Switch

### Product Highlights

- 1.9 Million packets/second forwarding rate
- Up to 16 Gbit/s switching capacity
- Up to 4.000 MAC Addresses
- SysKonnnect SK-8T08 compatible

### Features

- 8 Ports 10/100/1000Base-T, Auto MDI/MDI-X Auto-negotiation
- 128 KB packet buffer memory
- 2 priority queues per port
- Honors 802.1p values and honor IP DSCP values
- Weighted Round Robin (WRR) scheduling across queues
- 1U, desktop, Wall- or rack-mounting

### Standard Compliances

- IEEE 802.3 10/100/1000Base-T
- IEEE 802.3x mit Flow control / Auto-negotiation
- IEEE 802.1p Quality of Service
- IEEE 802.3ab Gigabit Ethernet standards

### Safety Standards

- CSA, CB, CE, UL

### EMC

- CE Class A, FCC Class B

### Environmental Specifications

- Storage: -20° to 70°C (-4° to 158°F), 10% to 95% Relative Humidity (non-condensing)
- Operating: 0° to 40°C (-32° to 104°F), 10% to 90% Relative Humidity (non-condensing)



## S-8180T - 8 Port Gigabit Ethernet Switch

### RoHS, other

- RoHS compliant

### Dimension

- 44x266x162 mm, 1.7x10.5x6.4" (High, Width, Deep)

### Weight

- Unit 1,45 kg, packet 2,35 kg

### Warranty

- 2 Years

### Order numbers

- 100-001-001-008

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### Germany

S2Kconnect GmbH  
Siemensstrasse 23  
D-76275 Ettlingen  
Phone: +49 7243 3435725  
Fax: +49 7243 3435723  
E-mail: sales@s2kconnect.de

[www.s2kconnect.com](http://www.s2kconnect.com)

# Appendix A. License and Warranty Information

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#### Hardware

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### Limited Warranty for Hardware and Software

#### Limited Warranty

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S2Kconnect warrants that NETWORK INTERFACE CARDS will be free from defects in materials and workmanship under normal use and service for a period of 5 years from the date of receipt, that NETWORK INFRASTRUCTURE COMPONENTS (e.g., hubs, Switches, concentrators) will be free from defects in materials and workmanship under normal use and service for a period of 2 years from the date of receipt, and other HARDWARE for a period of 6 months from the date of receipt respectively.

Any implied warranties on the SOFTWARE are limited to 90 days, to 5 years on the NETWORK INTERFACE CARDS, to 2 years on the NETWORK INFRASTRUCTURE COMPONENTS and to 6 months on all other hardware. This warranty is given by S2Kconnect as producer of the PRODUCT; possible legal warranty or liability claims against the dealer, whom you have acquired your SOFTWARE or HARDWARE product from, shall neither be replaced by nor limited through this warranty.

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Should individual stipulations of this Agreement be or become invalid, this invalid stipulation shall be replaced by a stipulation, which is as close as possible to the invalid stipulation.

Should you have any questions concerning this Agreement, or if you desire to contact S2Kconnect for any reason, please use the address information enclosed in this product or write to: S2Kconnect GmbH, Siemensstrasse 23, D-76275 Ettlingen, Germany.

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Wenn die Software permanent auf einer Festplatte oder einer anderen Speichervorrichtung eines Computers, der kein Netzserver ist, installiert wird und eine einzige Person diesen Computer zu mehr als 80 % der Zeit benutzt, die er in Benutzung ist, darf diese eine Person die Software auch auf einem tragbaren Computer oder einem Heimcomputer benutzen.

### Urheberrecht

Die Software ist Eigentum von S2Kconnect oder deren Lieferanten und ist durch Urheberrechtsgesetze, internationale Verträge und andere nationale Rechtsvorschriften gegen Kopieren geschützt.

Wenn die Software nicht mit einem technischen Schutz gegen Kopieren ausgestattet ist, dürfen Sie entweder eine einzige Kopie der Software ausschließlich für Sicherungs- oder Archivierungszwecken machen die Software auf eine einzige Festplatte übertragen, sofern Sie das Original ausschließlich zu Sicherungs- und Archivierungszwecken aufbewahren.

Sie dürfen weder die Handbücher des Produktes noch anderes schriftliches Begleitmaterial zur Software oder Hardware kopieren.

### Weitere Beschränkungen

Sie dürfen die Software oder Hardware weder vermieten noch verleihen, aber Sie dürfen die Rechte aus diesem S2Kconnect Lizenz und Kaufvertrag auf Dauer auf einen anderen übertragen, vorausgesetzt, dass Sie alle Kopien der Software und das gesamte schriftliche Begleitmaterial übertragen und der Empfänger sich mit den Bestimmungen dieses Vertrages einverstanden erklärt. Zurückentwickeln (Reverse Engineering), Dekompilieren und Entassemblieren der Software sind nicht gestattet. Eine Übertragung muß die letzte aktuelle Version (Update) und alle früheren Versionen umfassen.

### Hardware

Mit der Inbesitznahme (Übergabe) dieser Hardware geht die Gefahr auf Sie, den Endanwender über. Eigenschaften wurden nicht zugesichert.

## Beschränkte Garantie für Hardware und Software

S2Kconnect garantiert für einen Zeitraum von 90 Tagen ab Empfangsdatum, dass die Software, soweit die technischen Voraussetzungen hierfür von Ihnen geschaffen wurden, im wesentlichen gemäß der begleitenden Dokumentation arbeitet. S2Kconnect garantiert für Netzwerkadapterkarten für einen Zeitraum von 5 Jahren, Infrastrukturkomponenten (z.B. Konzentratoren, Hubs, Switches) für einen Zeitraum von 2 Jahren und die sonstige Hardware für einen Zeitraum von 6 Monaten ab Empfangsdatum, dass die gelieferte Hardware bei normaler Benutzung und Wartung frei von Material- oder Verarbeitungsfehlern ist. Die Garantie ist bezüglich der Software auf 90 Tage, bezüglich der Netzwerkadapter auf 5 Jahre für Infrastrukturkomponenten auf 2 Jahre und bezüglich der sonstigen Hardware auf 6 Monate beschränkt. Diese Garantie wird von S2Kconnect als Hersteller des Produktes übernommen; etwaige gesetzliche Gewährleistungs- oder Haftungsansprüche gegen den Händler, von dem Sie Ihr Exemplar der Software oder Hardware bezogen haben, werden hierdurch weder ersetzt noch beschränkt.