

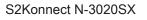
S2Konnect N-3020SX

1000Base-SX Dual Port Server Adapter,

PCIe x4, 2 Fiber LC

User Manual







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This manual refers to the S2Konnect N-3020SX 1000Base-SX Dual Port Server Adapter, PCIe x4, 2 Fiber LC. Contents are subject to change without notice.

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

S2Konnect GmbH

Siemensstrasse 23 76275 Ettlingen / Germany

visit our web site: http://www.s2konnect.com

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Conventions

The following conventions apply to this manual.



Warnings 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, could result to a damage to your eyes. Example: laser light.



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 of the device, always observe the following safety instructions when installing the network adapter.

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.
- For installation in a Hot-Plug system, observe the safety instructions specific to this system. Read the relevant documentation first.
- Do not connect the network adapter to a telephone line.



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 Network adapter.

To avoid damaging the S2Konnect N-3020SX Dual Port Server Adapter observe the following:

- Switch off the computer.
- Disconnect the power cord from the power outlet.
- Remove the computer cover.
- Before installing the network adapter, put on an antistatic wrist strap (electrically conduc tive).
- Connect the wrist strap to the computer chassis
 Do not connect the wrist straps to the ground terminal of the power supply!
 Faulty wiring could make this terminal live and potentially lethal.
- When you are ready to install the network adapter, open the antistatic bag.
- Hold the antistatic packaging of the network adapter against the bracket of an expansion slot on your computer for at least two seconds.
 This reduces the static charge in the packaging and in your body.
 If you need to place the network adapter somewehre after removing it from the antistatic bag, make sure you place it on the antistatic bag and on a level surface.
 Do not place the network adapter on the computer cover or on any other metal surface.
- Cautiously insert the adapter into the corresponding slot. Do not touch any circuits on the network adapter or any of its port contacts.







For the N-3020SX adapter, observe the following:

Laser light!

Laser light from fiber-optic transmission cables and components can damage your eyes.

The laser components on the network adapter are Class 1 laser components. Class 1 lasers are considered incapable of producing radiation levels during normal operation or maintenance and are, therefor, determined to be eye-safe.

To avoid damaging your eyes and to continue safe operation in case of abnormal circumstances:

- Never look directly into the outlets of fiber-optic cables or fiber-optic transmission components with unprotected eyes!
- Never allow fiber-optic transmission paths to operate until all the connections have been made.
- Always fit protective plugs to any unused ports on the switch or the network adapter.



Radiation!

The use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In general, observe the following:

- Never use force when working with the network adapter or the PCI Express or PCI/PCIe x4 bus.
- Do not allow anyone else to touch the network adapter.
- Avoid unnecessary movement since this can increase electrostatic charge.



1 Introduction

Thank you for purchasing a S2Konnect product.

This document describes the installation of the network adapter card. The N-3020SX is a PCIe x4 adapter which must be installed in a PCIe x4 slot of the computer. The adapter contains a Network chipset "Marvell 88E8062"

2 System requirements

Computer System:

The N-3020SX adapter is a typical server adapter supporting high throughput of data. You may utilize this adapter in any system supporting PCIe x4 bus.

Cable:

You must use a fiber LC cable to connect the adapter. Table "Transmission distances" in chapter 4 shows the distances of transmission you can reach.

3 Installation of the Network Adapter

The installation procedure in Hot-Plug systems may differ from the following. For Hot-Plug systems, read the corresponding documentation. Have the computer manual ready and if necessary, a key and screwdriver to open the cover and remove the bracket.

To install the adapter in the computer, proceed as follows:

- 1. Switch off the computer in wich the network adapter is to be installed.
- 2. Disconnect the power cord from the power outlet. Observe the safety instructions (see page 7)
- Open the computer cover as described in your computer manual. You may need a screwdriver or similar tool to remove the screws from the cover. If you are installing a network adapter in a tower computer, we recommend to put the computer on its side in order to apply the correct force to insert the adapter into the PCI-X slot.
- 4. Consult the section in your computer manual that describes how to install expansion cards.
- 5. Locate a free PCI-Express slot on the motherboard.



S2Konnect PCI Express adapters can be installed in x4, x8 and x16 slots.

- 6. Remove the bracket from the expansion slot (if applicable). Follow the instruction in your computer manual.
- Remove the network adapter from the antistatic bag. Observe the safety instructions (see page 7).
- 8. Insert the network adapter into the PCI-X slot as described in your computer manual (also see figure 1 "Insertion of the adapter into the computer").
 - Make sure the network adapter is correctly aligned with the PCI-X slot on the motherboard.
- 9. Push the network adapter down vertically into the slot until it is firmly seated.
- 10. If available, tighten the locking screw on the fixing bracket until the adapter is firmly connected to the computer cover (or to the attachment provided for expansion cards).
- 11. Replace the computer cover.
- 12. Replace and tighten all screws.
- Reconnect the power supply. Observe the safety instructions (see page 7).



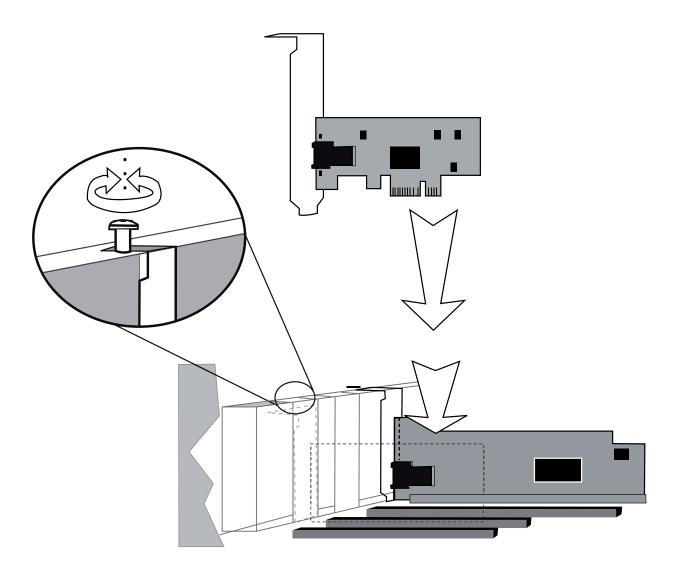
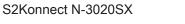


Figure 1. Insertion of the adapter into the computer







4 Connection of the Network Adapter

This chapter describes the physical connection of the S2Konnect N-3020SX Network Adapter to the network.

Transmission Distances

Depending on the physical media (cable), different distances can be reached for transmission with the Gigabit Ethernet adapter.

Adapter type	Physical Media	Maximum distance
1000Base-SX/LC (850 nm)	1000Base-SX 50.0 μm multimode fiber-optic	0.5 to 550 m
	1000Base-SX 62.2 μm multimode fiber-optic	0.5 to 275 m

Connection to the Network

Observe the safety instructions given on page 7.

In order to connect the adapter to the network, proceed as follows:

- 1. If necessary, configure the port on the switch to which the network adapter is to be connected (also see the switch manual).
- 2. If possible, disconnect the switch and the computer from the power supply.
- 3. Remove the protective plug (if available) from the switch port which is to be used.
- 4. At one end of the cable connect the LC duplex connector to the port on the switch.
- 5. Remove the protective plug (if available) from the port on the network adapter (fiber-optic types only).
- At the other end of the cable connect the connector to the port on the network adapter. (see figure 2. "Connection of fiber-optics cables/plugs"). The port type (e.g. 1000Base-SX) on the network adapter and that on the switch must be identical.



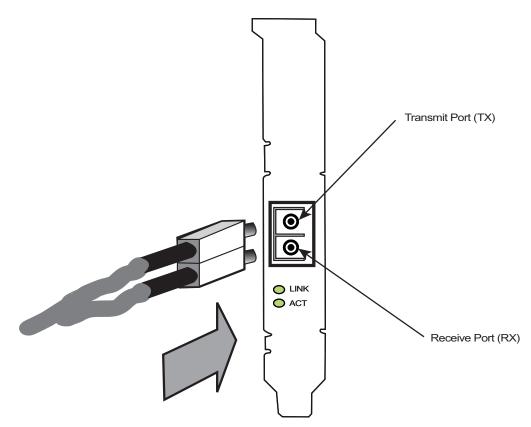


Figure 2. Connection of fiber-optics cables/plugs

- 5. Turn on the computer and the Switch.
- 6. Check the link LED(s) to find out if the cable is connected correctly. If the appropriate LED is on, the connection is established and active. Otherwise you have to check the network adapter more closely, (for details, refer to chapter 6 "Testing the network Adapter" and chapter 7 "Troubleshooting").

As soon as the connection to the network is etablished, the installation of the network adapter is complete. Keep this manual with your computer manual for future reference.



The network adapter will not be fully operational until suitable drivers are loaded. See how to install drivers for the operating system of your choice. Refer to drivers "Read me" or manuals for driver installation.

You will find a list of available drivers at: http://www.marvell.com

- > SUPPORT >
- > CHOOSE A PLATFORM >
- > SEARCH >
- > ACCEPT AND SUBMIT >
- > DOWNLOAD THE ARCHIVE ON A ZIP FILE

The chipset you have to select is: "88E8062"



5 Hardware Features

The S2Konnect N-3020SX 1000Base-SX Adapter, PCIe x4 constitutes a follow-up model of the SK-9E82 Adapter family.

S2Konnect N-20x0x and N-30x0x and the SysKonnect SK-9Exx/SK-9Sxx Gigabit Ethernet Adapter Familiy defines a series of network interfaces that combine server and workstation computers with the high-speed Gigabit Ethernet network (1000 Mbit/s) using fiber-optic and copper cables. They differ in terms of technology (PCI Express and PCI/PCIe x4), number of ports and transmission mode. LC duplex connectors (fiber cabling) and RJ-45 connectors (copper cabling) are used to connect to the network. The adapters can be connected to a switch, a buffered repeater, or directly to a second station (see also figure 3 "Possible network configurations / Connections options").

For information about other S2Konnect network products, refer to the product overview on our web site: <u>http://www.s2konnect.com</u>.

Server	dual port	dual port	single port	single port	dual port	single port
Workstation	dual port	dual port	single port	single port	dual port	single port

Figure 3. Possible network configurations / connection options

Adapter Characteristics

The following table lists the characteristics of the S2Konnect N-3020SX 1000Base-SX Gigabit Ethernet Server Adapter.

	S2Konnect N-3020SX 1000Base-SX Adapter (PCI/PCIe x4)
LAN interface	1000Base-SX
Port	Dual port
Connector	LC duplex
Media	Fiber (850 nm)

The type of port on the network adapter must be identical with that on the switch.





LED Displays

Once the driver has been installed, the adapter is operational. The current status and speed are indicated by the LEDs.

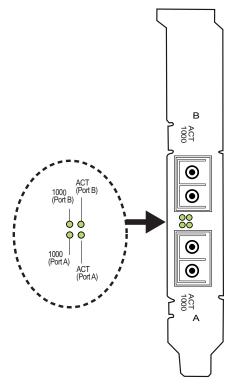


Figure 4. Location of the LEDs

The LEDs of the fiber adapters have the following meaning:

Marking on bracket	Color	Status	Description
1000/LINK	green	ON/OFF	Link up/Link down, Speed 1000 Mbit/s
ACT	green	ON/OFF	Receiving/Transmitting Not Receiving/Not Transmitting



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6 Testing the Network Adapter



There are two programs available to test the network adapter: a diagnostics program running on DOS and "Yukon Diagnostics" running on Windows.

During testing, observe the safety precautions given in chapter "Safety Precautions".

If the fiber adapter is not connected immediately to the data network, insert the protective plug for safety reasons (otherwise laser light may be emitted) and as a protection against dust and dirt.

DOS Diagnostics Program

The network adapter can be tested with the supplied diagnostics program (running on DOS). During testing, the link of the tested port will be down, Le., no data can be transferred. The following tests are available:

- Simple test without loopback: This test covers all components but not the port (socket including components for transmitting/receiving the data signals).
- Comprehensive port test with loopback: All components are tested, including the port.

The tests do not run in a Windows DOS box.

Loopback Wrap Plug Test

To perform the loop back wrap plug test, you will need a wrap plug (see figure 5. "Setup for loopback wrap plug testing").

Alternatively, the loopback test can be performed from port to port (for dual port adapters only) or via external repeater. Loopback testing via external repeater requires another adapter installed in a second computer running in repeater mode (also see section "Loop back Repeater Test"). The following procedure describes the test via wrap plug.

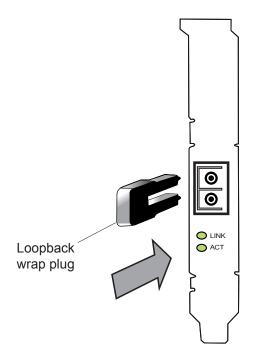


Figure 5. Setup for loopback wrap plug testing





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To test the adapter, proceed as follows:

- 1. Switch off the computer
- 2. If the computer is still connected to the data network, unplug the data cable from the network adapter's port.
- 3. Connect the network adapter as follows:
 - For the simple test: Insert the protective plugs into the ports.
 - For the loopback test: Insert the wrap plug into the port.
- 4. Boot to DOS.
 - Wait until the operating system is loaded and the DOS prompt is displayed.
- 5. You must select a drive containing the Diag Tool.
- 6. Start the diag program by:
 - Type "yukondg".

Press <Enter>.

From the main menu of the diagnostics program, select one of the following:

- DIAGNOSTICS for the simple test (no loopback)
- LOOPB. WRAP PLUG for the loopback test
- LOOPB. PORT TO PORT for the port-to-port test (only with dual port adapters)
- LOOPB. EXT. REPEATER for the loop back repeater test



7 Troubleshooting

Problem	What to do
Another expansion card fails to work after the network adapter has been installed	Make sure all cables are connected to the correct expansion cards. Make sure the expansion cards are correctly inserted. Check if any internal connections in the computer have been disengaged or have been damaged during the installation of the network adapter. Check for resource conflicts in the computer. Check PCI/PCI-X configuration and resource allocation.
The computer does not detect the network adapter	Make sure the adapter is properly seated in the computer. Try installing the adapter in a different PCI/PCI-X slot.
The computer adapter fails during a normal operation	Load or install the driver again.
Loopback test is successful but link LED does not light (no connection)	Check the connections and try another switch port if necessary. Is switch configuration 1000 Mbit/s set? Is the network driver loaded? Is the maximum transmission distance exceeded (see section "Transmission Distances")?
LED for transmitting/ receiving data pack- ets (ACT) is not illu- minated	Make sure the network driver is loaded. Is there any network overload? Is switch configuration 1000 Mbit/s set? Is the maximum transmission distance exceeded (see page 11)? If you have any other S2Konnect adapter installed, compare your setup with this adapter.

If the problem persists, you can analyze the status of the network adapter with the aid of the LEDs and the diagnostics programs.



8 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:

- adapter type
- driver version
- operating system
- configuration of your computer
- type of cabling

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

Please go to: http://www.s2konnect.com, contact section.

Returning an Adapter for Repair

If you want to return a faulty product to S2Konnect, follow these steps:

- Contact us by phone, fax, or e-mail (Contact section of our web page). We will send you an RMA (Return Material Authorization) form by fax or e-mail.
- 2. Complete the form.
- Return the form to us. We will send you a unique reference number and inform you if the product is still under warranty.
- 4. Send us the faulty product packed in an antistatic bag, with a copy of the completed form enclosed in its original packaging (or comparable packaging).
- 5. Write the reference number issued by S2Konnect clearly visible on the outer packaging.



S2Konnect 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

Additional Documentation and Updates

S2Konnect maintains a site on the World Wide Web where you can find the latest information on our product range and our customer support services. The latest drivers are provided on the Marvell web site.

To download the latest drivers from Marvell web site, proceed as follows:

- 1. Visit the web site: <u>http://www.marvell.com</u>
- 2. Click the DOWNLOAD CENTER button.
- 3. In the field "Product", select the desired adapter. You need to know the chipset, see p. 12.
- 4. In the field "Type", select DRIVER.
- 5. In the field "System", select the desired operating system.
- 6. Click SEARCH.

A list of all available drivers matching your search is displayed.

7. In the outer right column of the line containing the desired driver, click DOWNLOAD.





N-3020SX - 1000Base-SX Dual Port Server Adapter, PCIe x4 , 2 Fiber LC

Product Highlights

- PCI Low Profile (Bracket included)
- Sensors for Temp. and Voltage
- TCP Segmentation (large send)
- Compatible to SysKonnect SK-9E82

Features

- Parity check on all data path
- TCP, UDP, and IP checksum generation and checking on chip
- Jumbo Frame support
- Dynamic Interrupt Moderation
- Advanced Power Management (ACPI)
- Dual Net
- Redundant Link Management Technology RLMT

Standard Compliances

- IEEE 802.3x with Flow control / Auto-negotiation
- IEEE 802.1p Quality of Service
- IEEE 802.3ad Gigabit Link Aggregation
- IEEE 802.3az 1000Base-X Gigabit Ethernet

Boot Options

- Standard PXE 2.1 (Pre-Boot eXecution Environment)
- RPL (Remote Program Load)

Safety Standard

- CSA, CB, CE, UL
- VCCI



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N-3020SX - 1000Base-SX Dual Port Server Adapter, PCIe x4 , 2 Fiber LC

Driver

- X86 : Windows Server 2008 R2, Windows Server 2008 SP2, Windows 7, Windows Vista, Windows XP, Windows 2000, Windows 2003 (.Net), Windows Server 2003, NT4, Windows98 SE, ME
- x64 : Windows Server 2008 R2, Windows Server 2008 SP2, Windows 7, Windows Vista, Windows XP, Windows 2000, Windows 2003 (.Net), Windows Server 2003
- Solaris : SPARC 32:7,8,9
- Solaris : Intel X86:8,9,10
- Solaris : X64:10
- Linux : X86:Kernel 2.2, Kernel 2.4, Kernel 2.6
- NetWare : X86:4.2, 5.x, 6.x, DOS ODI
- Mac OS X : 10.2, 10.3, 10.4
- SCO OpenServer 5.0.7
- OS/2: X86:3.0 and higher
- UnixWare : X86:7.1x
- DOS : Intel X86:NDIS2, ODI, PXE
- FreeBSD : X86:5.1, 5.2, 5.3, 5.4, 6.0
- FreeBSD 7 x86 and x64

EMC

- Europe: EN55022; IEC-CISPR-22 Class B EN 55024; IEC CISPR 24
- USA: FCC, CFR 47 Part 15, Declaration of Conformity Class B

Environment Specifications

- Storage: -20°C to +70°C, Rel. Humidity 10% to 95% non-condensing
- Operating: -0°C to +50°C, Rel. Humidity 30% to 80% non-condensing



N-3020SX - 1000Base-SX Dual Port Server Adapter, PCIe x4 , 2 Fiber LC

ROHs

RoHS compliant

Power Consumption

- Single port : @ +3.3V / VCC: max. 0.9 A / 3 W @ +3.3V(aux): max. 375 mA
- Dual port : @ +3.3V / VCC: max. 1.8 A / 6 W @ +3.3V(aux): max. 375 mA

Dimension

• 118.4 mm x 68.94 mm (without Bracket)

Warranty

• 2 Years

Order Numbers

• 100-000-200-004

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www.s2konnect.com



Appendix A. License and Warranty Information The Americas, Asia, Australia, New Zealand, Pacific

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if you acquired your S2Konnect product in the UNITED STATES, CANADA or any other country in the AMERICAS, ASIA, AUSTRALIA, NEW ZEALAND, PACIFIC, the following license and purchase agreement applies to you.

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By opening the sealed disk package and taking possession of the hardware, you are agreeing to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, promptly return the unopened and unused disk package and hardware with the accompanying items (including all written materials and other accessories) to the place of purchase for a full refund.

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If the SOFTWARE is not copy protected you may either make one copy of the SOFTWARE solely for backup or archival purposes, or transfer the SOFTWARE to a single hard disk provided you keep the original solely for backup or archival purposes.

You may not copy the Product Manual(s) or written materials accompanying the SOFTWARE or HARDWARE.

Other Restrictions

You may not rent or lease the SOFTWARE or HARDWARE, but you may transfer your rights under this S2Konnect GmbH License and Purchase Agreement on a permanent basis provided you transfer all copies of the SOFTWARE and all written materials, and the recipient agrees to the terms of this Agreement. You may not reverse engineer, decompile or disassemble the SOFTWARE. Any transfer must include the most recent update and all prior versions.

Hardware

S2Konnect GmbH warrants, that the hardware will be delivered free from defect and in working condition. S2Konnect GmbH does not assume liability for nor warrant damage to the hardware after delivery. S2Konnect also does not warrant total applicability for specific applications or customer network environments.

Limited Warranty for Hardware and Software

Limited Warranty

S2Konnect warrants that the SOFTWARE will perform substantially in accordance with the accompanying Product Manual(s) for a period of 90 days from the date of receipt.

S2Konnect warrants that NETWORK INTERFACE CARDS 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, 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.

This warranty is given by S2Konnect 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 replaced by nor limited through this warranty.

Customer Remedies

S2Konnect's entire liability and your exclusive remedy shall be, at S2Konnect's option, either return of the price paid, or repair or replacement of the SOFTWARE or HARD-WARE that does not meet S2Konnect's Limited Warranty and which is returned to S2Konnect GmbH with a copy of your receipt. This Limited Warranty is void if failure of the SOFTWARE or HARDWARE has resulted from accident, abuse, or misapplication. Any replacement SOFTWARE will be warranted by S2Konnect GmbH only for the remainder of the original warranty period or 30 days, whichever is longer. Any replacement HARDWARE will be warranted for the remainder of the original warranty period or 6 months, whichever is longer.

No other Warranties

S2Konnect GmbH disclaims all other warranties or liabilities with respect to the SOFTWARE, the HARDWARE, the accompanying Product Manual(s) and other written materials and any other accessories.

No Liability for Consequential Damages

S2Konnect GmbH does not warrant the software and hardware for a specific application, nor does S2Konnect GmbH accept any consequential damages due to the use of the hardware or software. S2Konnect GmbH and its suppliers shall not be liable for any other damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information or data, property loss or other financial loss), arising out of the use of or the inability to use this S2Konnect GmbH product, even if S2Konnect GmbH has been advised of the possibility of such damages. In any case, S2Konnect's entire liability shall be limited to the amount actually paid by you for the product.

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Europe

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Other Restrictions

You may not rent or lease the SOFTWARE or HARDWARE, but you may transfer your rights under this S2Konnect License and Purchase Agreement on a permanent basis provided you transfer all copies of the SOFTWARE and all written materials, and the recipient agrees to the terms of this Agreement. You may not reverse engineer, decompile or disassemble the SOFTWARE. Any transfer must include the most recent update and all prior versions.

Hardware

The risk passes to you, the end user, upon taking possession (hand over) of the HARDWARE. Total qualities were not warranted.

Limited Warranty for Hardware and Software

Limited Warranty

S2Konnect warrants that the SOFTWARE will perform substantially in accordance with the accompanying Product Manual(s) for a period of 90 days from the date of receipt if you have created the required technical preconditions.

S2Konnect 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 S2Konnect 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 replaced by nor limited through this warranty.

Customer Remedies

S2Konnect's entire liability and your exclusive remedy shall be, at S2Konnect's option, either return of the price paid, or repair or replacement of the SOFTWARE or HARD-WARE that does not meet S2Konnect's Limited Warranty and which is returned to S2Konnect with a copy of your receipt. This Limited Warranty is void if failure of the SOFTWARE or HARDWARE has resulted from accident, abuse, or misapplication. Any replacement SOFTWARE will be warranted by S2Konnect only for the remainder of the original warranty period or 30 days, whichever is longer. Any replacement HARDWARE will be warranted for the remainder of the original warranty period or 6 months, whichever is longer.

No other Warranties

S2Konnect disclaims all other warranties or liabilities with respect to the SOFTWARE, the HARDWARE, the accompanying Product Manual(s) and other written materials and any other accessories.

No Liability for Consequential Damages

S2Konnect does not warrant the software and Hardware for a specific application, nor does S2Konnect accept any consequential damages due to the use of the hardware or software. S2Konnect and its suppliers shall not be liable for any other damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information or data, property loss or other pecuniary loss), arising out of the use of or the inability to use this S2Konnect product, even if S2Konnect has been advised of the possibility of such damages. In any case, S2Konnect's entire liability shall be limited to the amount actually paid by you for the product.

Other

This agreement is governed by the procedural and substantive laws of the Federal Republic of Germany. UN Trade Laws shall not be applicable in any case. Place of litigation is Karlsruhe, FRG, as far as this can be agreed upon operatively in this way.

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 S2Konnect for any reason, please use the address information enclosed in this product or write to: S2Konnect GmbH, Siemensstrasse 23, D-76275 Ettlingen, Germany.



Deutschland, Schweiz, Österreich, Liechtenstein

Verehrte Kundin, verehrter Kunde,

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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

S2Konnect 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. S2Konnect 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 9 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 S2Konnect 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.

