

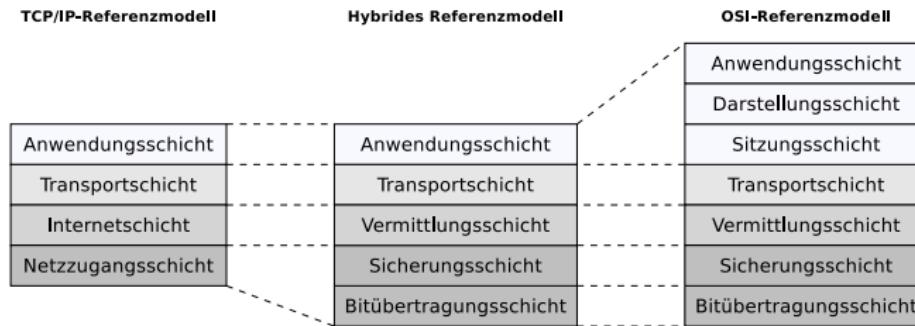
# Netzwerkkomponenten

Prof. Dr. Christian Baun

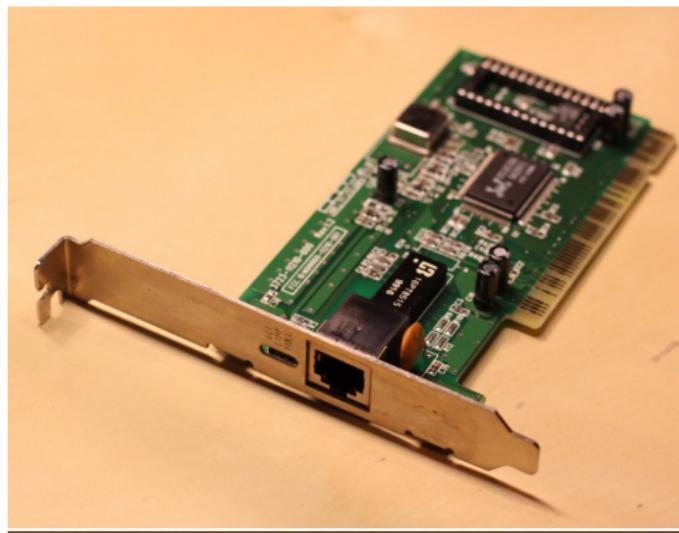
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# Aufgabe

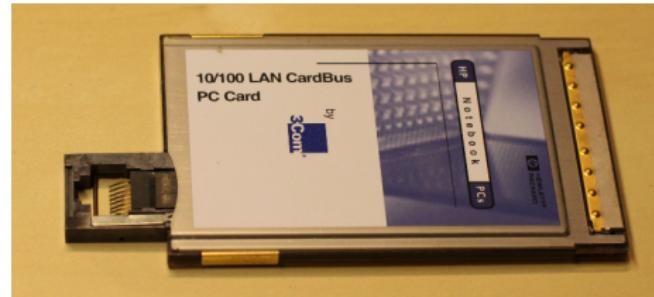
- Auf den Folien dieses Foliensatzes befinden sich Abbildungen zu verschiedenen Netzwerkkomponenten
- Versuchen Sie die Netzwerkkomponenten den Schichten im hybriden Referenzmodell zuzuordnen



# Komponente 1



# Komponente 2



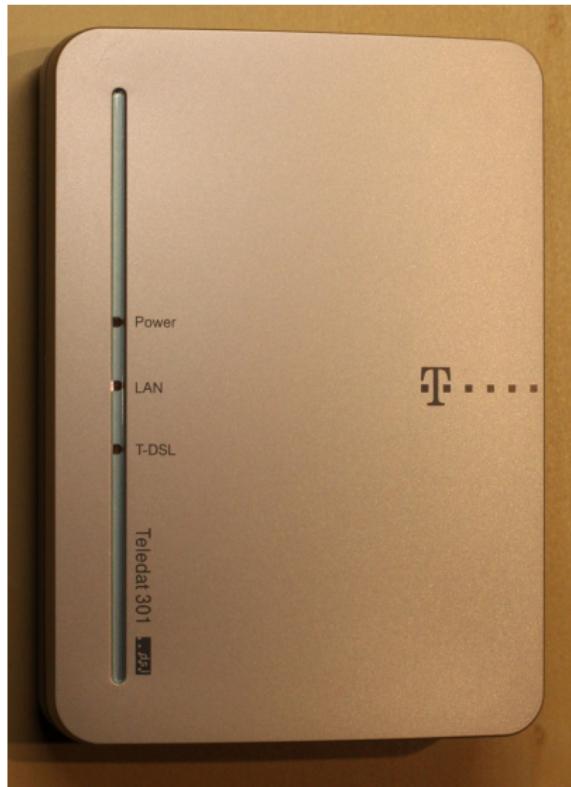
# Komponente 3



## Komponente 4



## Komponente 5



# Komponente 6



Siemens - Google Chrome  
Siemens 192.168.1.100/html/CurrentStatus.html

## SIEMENS WLAN Bridge

Current Status    Setup Wizard    Advanced Setup    Statistics

### Current Status

| Device IP Information |                     | WLAN 802.11b /g Status |               |
|-----------------------|---------------------|------------------------|---------------|
| MAC Address           | » 00:1d:6a:38:61:7e | ESSID                  | » ALICE-WLAN  |
| Get IP From           | » Manual            | Channel                | » 11          |
| IP Address            | » 192.168.1.100     | Rate                   | » Auto        |
| Subnet Mask           | » 255.255.255.0     | Security Level         | » Open System |
| Default Gateway       | » 192.168.1.1       | Encryption Enabled     |               |

ATN Reset Ethernet 5VDC 2A

# Komponente 7



## Komponente 8



# Komponente 9



```
# telnet 10.0.0.5
Trying 10.0.0.5...
Connected to 10.0.0.5
Escape character is '^]'.

HP JetDirect

Please type "?" for HELP, or "/" for current settings

> /
==JetDirect Telnet Configuration===
Firmware Rev.      : A.08.49
MAC Address       : 08:00:09:7f:56:63
Config By         : USER SPECIFIED
IP Address        : 10.0.0.5
Subnet Mask       : 255.255.255.0
Default Gateway   : 10.0.0.1
Syslog Server     : Not Specified
Idle Timeout      : 90 Seconds
Set Cmnty Name    : Not Specified
Host Name         : LASERJET
DHCP Config       : Disabled
```

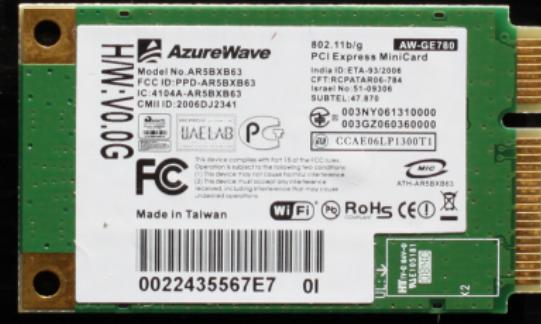




# Komponente 10



# Komponente 11



0022435567E7

# Komponente 12

```
$ telnet 192.0.0.192
```

```
Trying 192.0.0.192...
```

```
Connected to 192.0.0.192.
```

```
Escape character is '^]'.  
  
HP JetDirect
```

```
Please type "?" for HELP, or "/" for current settings  
> /
```

```
====JetDirect Telnet Configuration=====
```

```
Firmware Rev. : F.08.20
```

```
MAC Address : 00:30:6e:fc:97:c8
```

```
Config By : Default IP
```

```
IP Address : 192.0.0.192
```

```
Subnet Mask : Not Specified
```

```
Default Gateway : 192.0.0.192
```

```
Syslog Server : Not Specified
```

```
Idle Timeout : 90 Seconds
```

```
Set Cmnty Name : Not Specified
```

```
Host Name : Not Specified
```

```
DHCP Config : Enabled
```

```
Passwd : Disabled
```

```
IPX/SPX : Enabled
```

```
DLC/LLC : Enabled
```

```
Banner page : Enabled
```

S/N:SG421BB4AA  
AD:00306EFC97C8



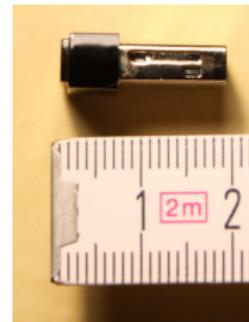
# Komponente 13



## Komponente 14

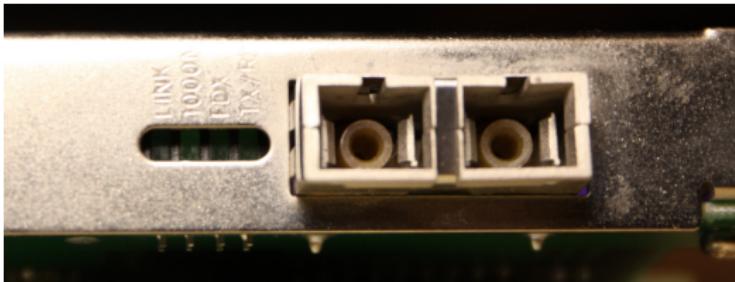
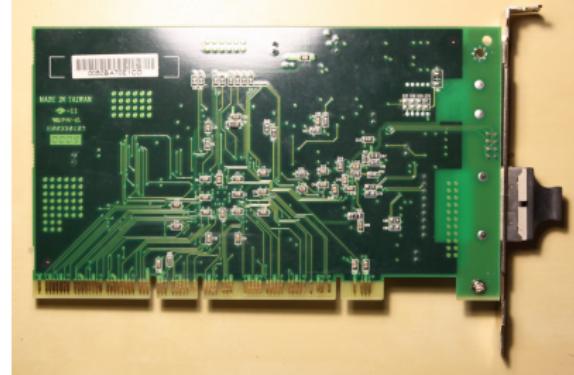


# Komponente 15



```
[221411.207865] usb 1-2: USB disconnect, device number 90
[221703.999606] usb 1-1: USB disconnect, device number 91
[221732.387524] usb 1-1: new high-speed USB device number 92 using xhci_hcd
[221732.528114] usb 1-1: New USB device found, idVendor=0bda, idProduct=8179
[221732.528118] usb 1-1: New USB device strings: Mfr=1, Product=2, SerialNumber=3
[221732.528121] usb 1-1: Product: 802.11n NIC
[221732.528123] usb 1-1: Manufacturer: Realtek
[221732.528126] usb 1-1: SerialNumber: 00E04C0001
[221733.120663] r8188eu: module is from the staging directory, the quality is unknown, you have been warned.
[221733.124373] Chip Version Info: CHIP_8188E_Normal_Chip_TSMC_A_CUT_1T1R_RomVer(0)
[221733.150775] usbcore: registered new interface driver r8188eu
[221733.152618] r8188eu 1-1:1.0 wlx6466b31c4fbc: renamed from wlan0
[221733.177891] IPv6: ADDRCONF(NETDEV_UP): wlx6466b31c4fbc: link is not ready
[221733.178917] r8188eu 1-1:1.0: firmware: direct-loading firmware rtlwifi/rtl188eufw.bin
[221733.544034] MAC Address = 64:66:b3:1c:4f:bc
```

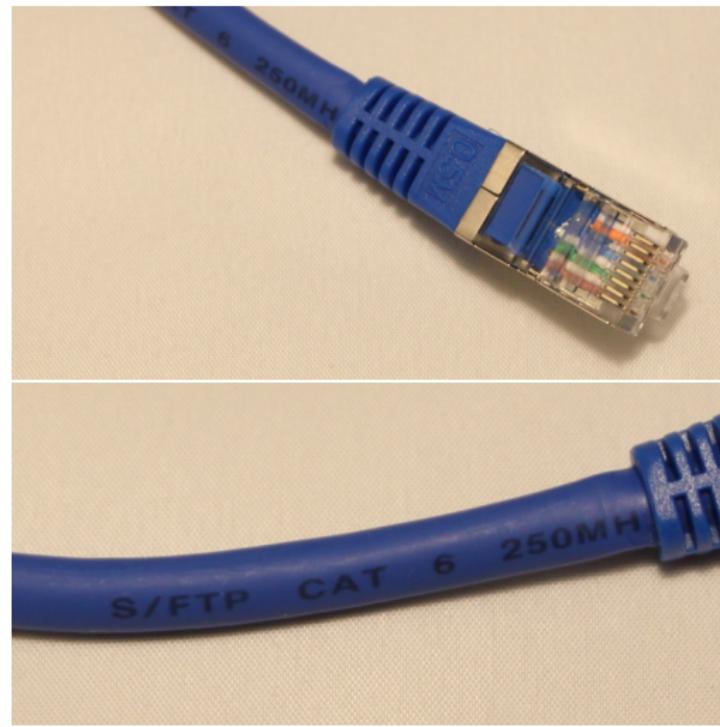
# Komponente 16



# Komponente 17



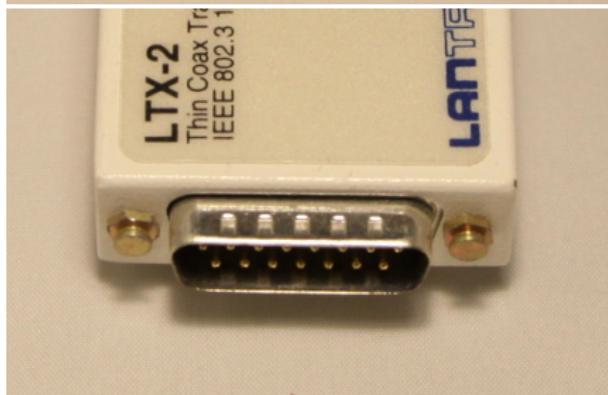
## Komponente 18



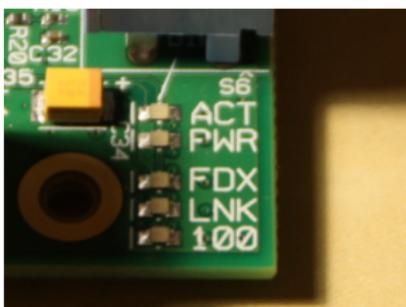
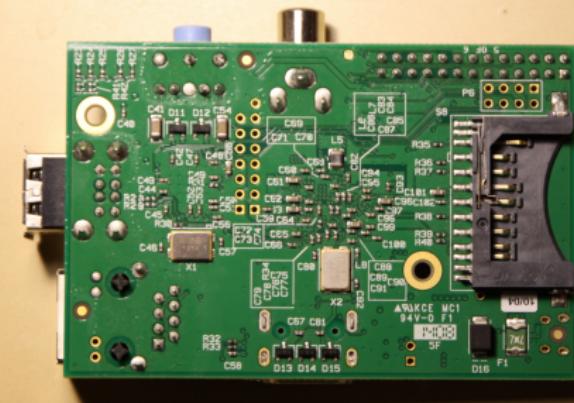
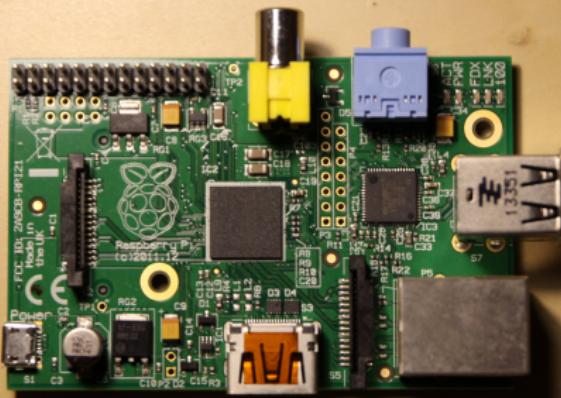
# Komponente 19



# Komponente 20



# Komponente 21



## Komponente 22



- Bestandteile trockener Luft:
  - Stickstoff ( $N_2$ )
  - Sauerstoff ( $O_2$ )
  - Argon ( $Ar$ )
  - Kohlenstoffdioxid ( $CO_2$ )
  - Neon ( $Ne$ )
  - Helium ( $He$ )
  - Methan ( $CH_4$ )
  - Krypton ( $Kr$ )
  - Wasserstoff ( $H_2$ )
  - usw.