

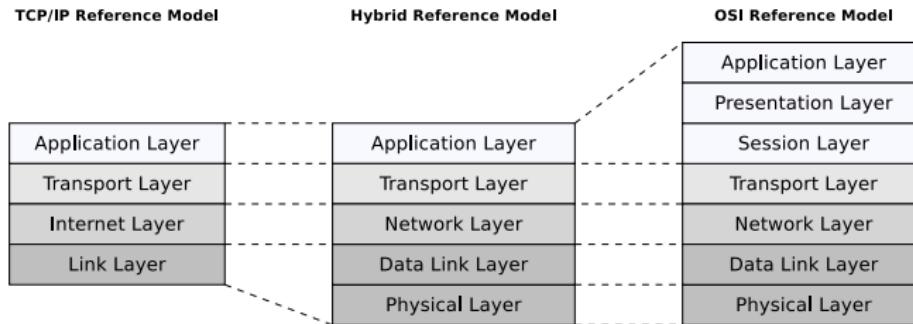
Network Components

Prof. Dr. Christian Baun

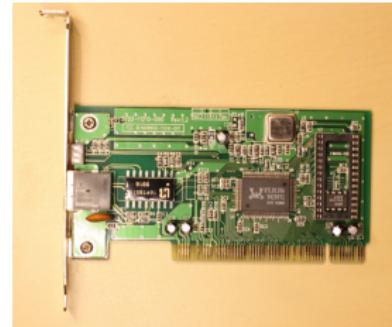
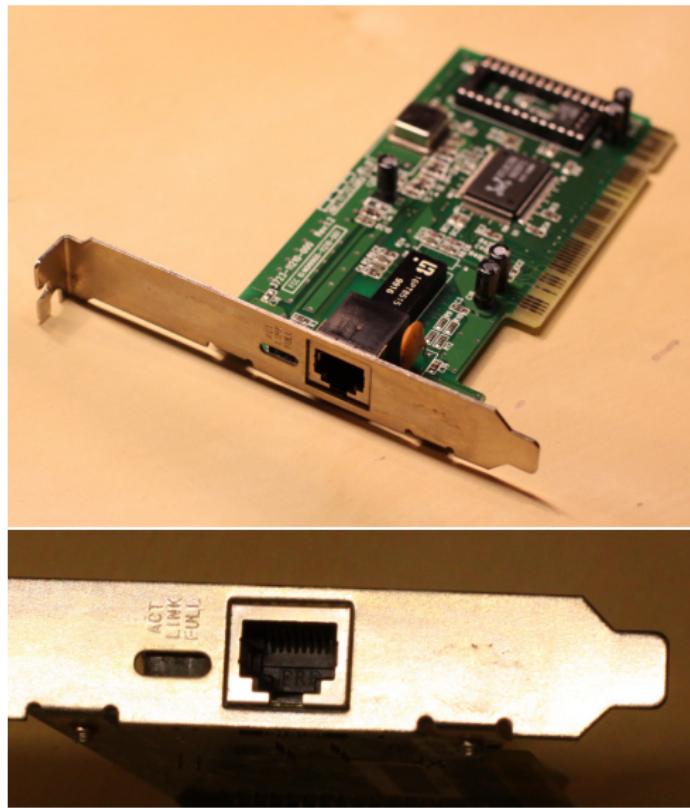
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Task

- The slides of this slide set contain photos of various network components
- Try to assign the network components to the layers in the hybrid reference model



Component 1





Component 2



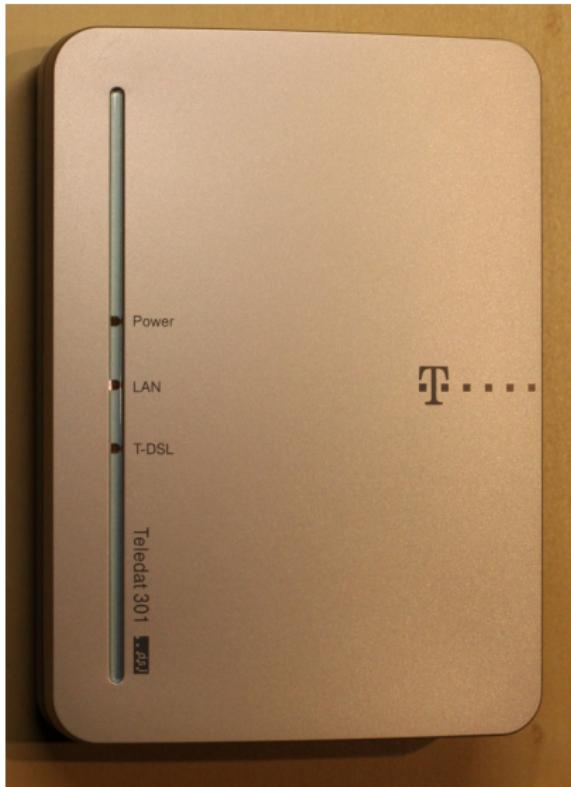
Component 3



Component 4



Component 5



Component 6



Siemens - Google Chrome
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	

ATM Reset Ethernet 5V DC 2A



Component 7



Component 8



Component 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
```





Component 10



Component 11



0022435567E7

Component 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



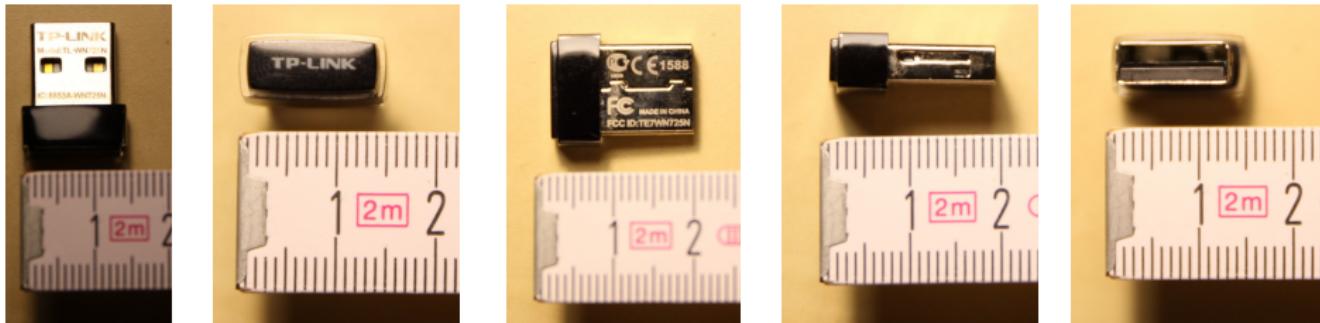
Component 13



Component 14

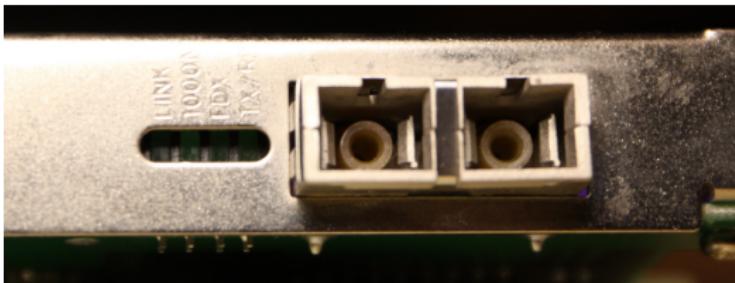


Component 15



```
[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
```

Component 16



Component 17



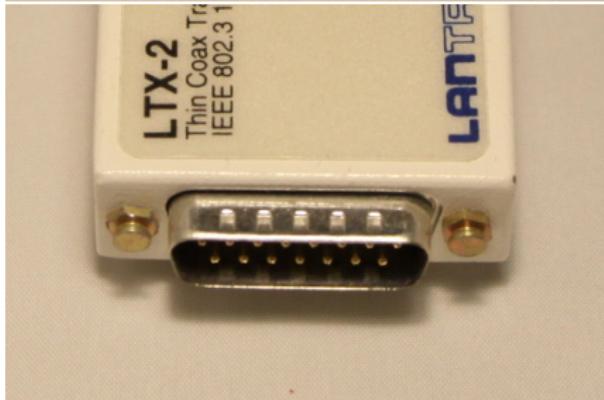
Component 18



Component 19

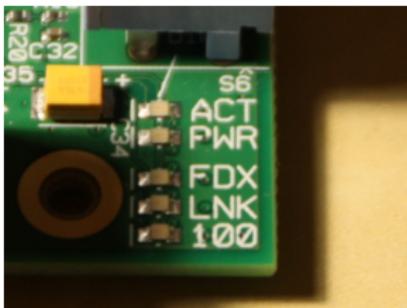
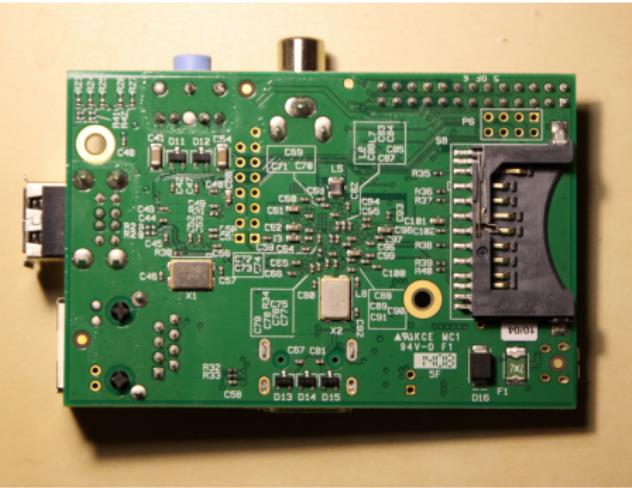
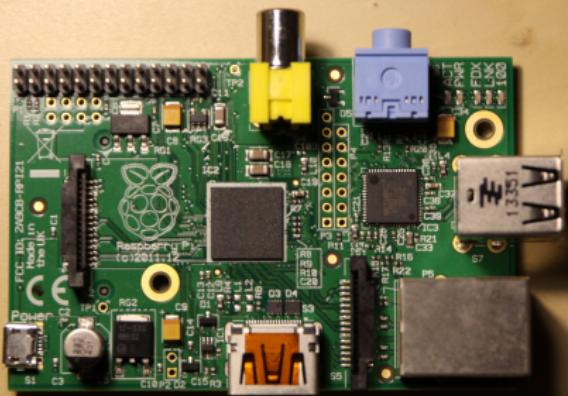


Component 20





Component 21



Component 22



- Components of dry air:
 - Nitrogen (N_2)
 - Oxygen (O_2)
 - Argon (Ar)
 - Carbon dioxide (CO_2)
 - Neon (Ne)
 - Helium (He)
 - Methane (CH_4)
 - Krypton (Kr)
 - Hydrogen (H_2)
 - ...