

TCP/IP over Ethernet

- Integration into existing 10M/100M LAN
- Standard Network Cables, RJ45-Connector
- Simple control with integrated WWW-server using any WEB-browser (MS Internet Explorer and Linux Konqueror are tested)
- Complete control with SNMP (Simple Network Managment Protocol)
- Additional connection to the RS232-port of a VME CPU with TELNET protocol (used to monitor boot messages/BIOS access)

TCP/IP over Ethernet

WEB-Browser

UEP6000/PL500 - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

UEP6000/PL500 W-IE-NE-R

MAIN POWER VME SYSRESET FAN SLOWER FAN FASTER

Global Status

Power Supply Status	OFF
Fan Tray Status	OK
Fan Speed	0 RPM
Fan Temperature	25°C

Output Voltages

Channel	Name	Voltage	Current	Status
U0	+5V0	5.80V	0A	FAILURE
U1	+12V	12.0V	0.0A	OK
U4	-5V2	5.19V	0A	OK
U5	-12V	12.0V	0.0A	OK
U7	-2V0	2.00V	0A	OK

External Temperature Sensors

1	2	3	4	5	6	7	8
-29°C	-20°C	-8°C	2°C	11°C	20°C	32°C	37°C

Fertig Internet

Verbindung zu 192.168.91.81 herstellen

WIENER Crate

Benutzername: private

Kennwort:

☐ Kennwort speichern

OK Abbrechen

TCP/IP over Ethernet

SNMP

- SNMP is a well defined protocol, we use protocol version 2c (Access control with community names)
- Different access rights (read only, simple control, ...)
- Many utilities available (Windows/Unix),
 - Command Line (Batch files)
 - PERL
 - PHP (stand alone or in the APACHE WEB-server)

TCP/IP over Ethernet

SNMP Command Line Tools (www.net-snmp.org)

```
C:\>snmpget -v 2c -m +WIENER-CRATE-MIB -c public 192.168.91.80  
outputMeasurementSenseVoltage.U1
```

```
WIENER-CRATE-MIB::outputMeasurementSenseVoltage.U1 = Opaque:  
Float: 12.020000 V
```

```
C:\>snmpset -v 2c -m +WIENER-CRATE-MIB -c guru 192.168.91.80  
outputVoltage.U0 F 4.0
```

```
WIENER-CRATE-MIB::outputVoltage.U0 = Opaque: Float: 4.000000 V
```

Command & basic parameters

Crate IP address or DNS name

Date Type & Value

Community name

Item to get/set

Response (Answer of the crate)

TCP/IP over Ethernet

SNMP Access Control: Display of the Community Strings

```
C:\>snmptable -v 2c -m +WIENER-CRATE-MIB -Ci -c guru  
192.168.91.80 communityTable
```

SNMP table: WIENER-CRATE-MIB::snmp

index	snmpCommunityEntry
public	"public"
private	"private"
admin	"admin"
guru	"guru"

Command & basic parameters

Crate IP address or DNS name

Date Type & Value

Community name

Item to get/set

Response (Answer of the crate)

TCP/IP over Ethernet

Change „private“ Password (WEB/SNMP)

```
C:\>snmpset -v 2c -m +WIENER-CRATE-MIB -c guru 192.168.91.80  
snmpCommunityName.private s seCrET
```

```
WIENER-CRATE-MIB::snmpCommunityName.private = STRING: "seCrET"
```

- Lost passwords: Restore of the default values with the (hardware) switches at the front pannel.

Command & basic parameters

Crate IP address or DNS name

Date Type & Value

Community name

Item to get/set

Response (Answer of the crate)