



ALLNET®

ALL5001 Development Kit

```
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

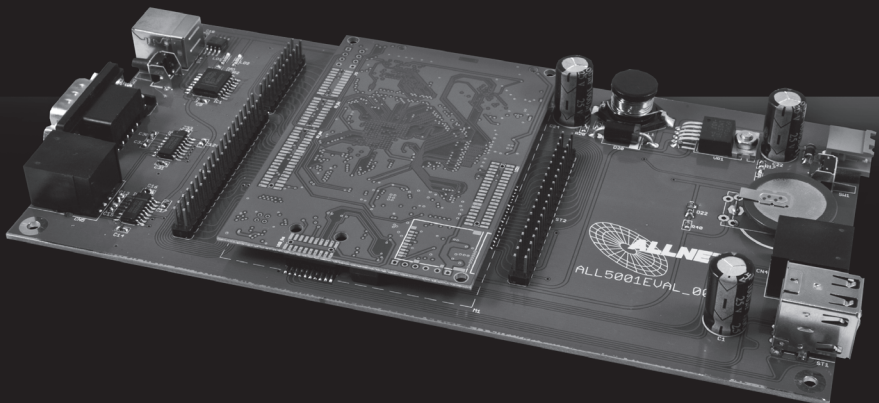
Z:\>pscp.exe
Putty Secure
Release 0.53b
Usage: pscp [options] [user@]host:source target
pscp [options] -l user@host:tlspac

Options:
-p port connect to specified port
-l user connect with specified username
-pw passw login with specified password
-q force use of particular SSH protocol version
-C enable compression
-i key private key file for authentication
-hatch disable all interactive prompts
-unsafe allow server-side wildcards (DANGEROUS)

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```



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1. Lieferumfang

Bitte prüfen Sie die Verpackung und den Inhalt auf Schäden:

- > Deutet an der Verpackung etwas darauf hin, dass beim Transport etwas beschädigt wurde?
- > Sind am Systemboard Gebrauchs- oder Beschädigungsspuren zu erkennen?

Sie dürfen das Gerät auf keinen Fall in Betrieb nehmen, wenn es beschädigt ist. Wenden Sie sich im Zweifelsfall an unseren technischen Kundendienst.

Verpackungsinhalt:

- ALL5001EVAL Evaluation Board inkl. ALL5001 CPU-Board
- externes Netzteil
- serielles Anschlusskabel
- USB-Kabel
- RJ45 Netzkabel
- Handbuch

Um das Handbuch herunterzuladen, besuchen Sie bitte unsere Homepage www.allnet.de. Im Bereich „Downloads“ wählen Sie über das Auswahlménú das Produkt ALL5001 aus. Im Bereich Dokumentation steht die aktuelle Version des Handbuchs zum Download bereit.

FTP Link: <ftp://212.18.29.48/ftp/pub/allnet/verschiedene/all5001/>

2. Eckdaten der Entwicklungs- und Evaluierungsplattform ALL5001

ALL5001 CPU-Board Eckdaten:

Atmel AT91SAM9G45-Prozessor (ARM-Core, 400 MHz)
64 MB DDR-RAM
256 MB FLASH
5* serielle Schnittstellen (ttyS0 Console, ttyS1...4 frei nutzbar)
Ethernet 10/100 Mbit mit Übertrager
USB-Host mit integriertem 4-port Hub und 5V-Ausgang
Versorgung mit 12V, max. 200 mA (Eingangsbereich 7.5 ... 12 V)
Abmessungen: 90 * 63 mm, (Höhe 7 mm max.)

Eval-Board Eckdaten:

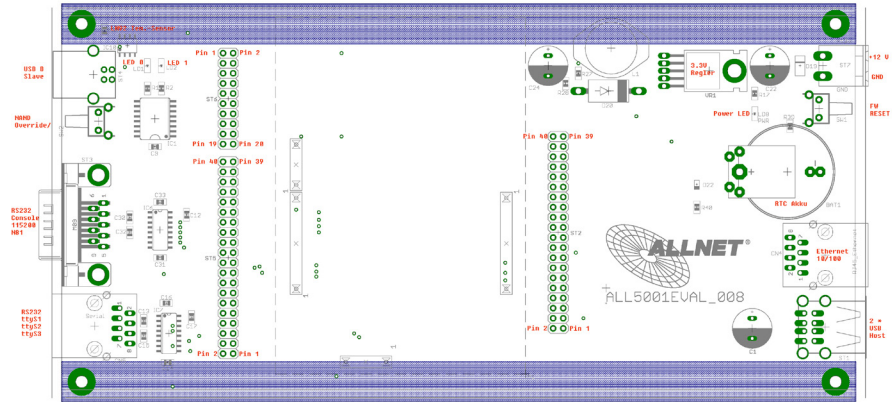
Stromversorgung über 2-poligen Klemmenstecker (12 V DC)
Abmessungen: 200 * 100 mm
Konsolen-Schnittstelle RS232 auf DB9
Serielle Schnittstellen RS232 ttyS1...ttyS3 auf RJ-45 Buchse
(Adapterkabel auf 3 * DB9 liegt bei)
USB-B-Buchse (Slave) zum Programmieren des FLASH über SAM-BA
2* USB-A-Buchsen (Host)
RJ45-Buchse für Ethernet
3.3V Lithiumbatterie für RTC
2 programmierbare LEDs
Temperatursensor LM92
3.3V-Spannungsregler zur Versorgung eigener Projekte
3* 2.54 mm Pfostenstecker zum einfachen Zugang zu den I/O-Pins des CPU-Boards

3. Aufstellungs- und Montageort

Der ALL5001 Development Kit ist für den Innenbereich entwickelt worden und darf auch nur dort eingesetzt werden. Bitte beachten Sie, dass die Netzteile heiß werden können. Sorgen Sie bitte für eine ausreichende Belüftung.

Wichtiger Hinweis: Bitte benutzen Sie immer nur das beigelegte Netzteil.

4. Steckerbelegungen



4.1. Stromversorgungsbuchse (2-poliger grüner Anschluss)

innen : GND

zur Platinaußenseite: + 12 V

4.2. Ethernet-Buchse (RJ45)

1: LAN_TX+

2: LAN_TX-

3: LAN_RX+

4: -

5: -

6: LAN_RX-

7: -

8: -

4.3. USB-Host-Buchse (unten)

1: +5V

2: USB4-

3: USB4+

4: GND

Schirm: GND

4.4. USB-Host-Buchse (oben)

1: +5V

2: USB3-

3: USB3+

4: GND

Schirm: GND

4.5. Serielle Schnittstellen ttyS1...3 (RJ45 Buchse)

- 1: GND
- 2: UART0_TX (ttyS1)
- 3: UART0_RX
- 4: UART1_TX (ttyS2)
- 5: GND
- 6: UART1_RX
- 7: UART2_TX (ttyS3)
- 8: UART2_RX

4.6. Experimentierstecker ST2

- 1: +12V vom Eingang
- 2: PE30
- 3: +5V vom USB-Regler
- 4: PE29
- 5: +3.3V vom Evalboard-Regler
- 6: PE28
- 7: GND
- 8: PE27
- 9: GND
- 10: PE26
- 11: -
- 12: PE25
- 13: -
- 14: PE24
- 15: -
- 16: PE23
- 17: PE31
- 18: PE22
- 19: PE21
- 20: PE20
- 21: PE19
- 22: PE18
- 23: PE17
- 24: PE16
- 25: PE15
- 26: PE14
- 27: PE13
- 28: PE12
- 29: PE11
- 30: PE10
- 31: PE9
- 32: PE8
- 33: PE7
- 34: PE5
- 35: PE0
- 36: PE4
- 37: PE3
- 38: PE1
- 39: PE2
- 40: PE6

4.7. Konsolenschnittstelle ttyS0 (DB9 Stecker)

1: -
2: TX (Console, ttyS0)
3: RX
4: -
5: GND
6: -
7: -
8: -
9: -
Schirm: GND

4.8. Experimentierstecker ST5

1: PB1
2: PB2
3: PB3
4: PB0
5: PD27
6: PB17
7: -
8: PB14
9: -
10: PB15
11: -
12: PD23
13: PD24
14: PD29
15: PD25
16: PC10
17: PD26
18: -
19: PD0
20: -
21: PD7
22: -
23: PD6
24: -
25: PD9
26: -
27: PD8
28: -
29: PD20
30: -
31: PD21
32: -
33: PD22
34: -
35: PD23
36: -
37: PD30
38: -
39: PA26
40: -

4.9. Experimentierstecker ST6

1: PA20
2: PB31
3: PA21
4: /RESET
5: PB9
6: PB20
7: PB29
8: PB21
9: PB30
10: PB22
11: PB11
12: PB23
13: PB10
14: PB24
15: PB8
16: PB25
17: PB28
18: PB26
19: GND
20: PB27

4.10. Firmware-Reset-Taster SW1

Mit 1 K-Ohm an +3.3V, der Taster zieht nach Masse
CPU-Anschluss: PD15

4.11. Geräteerkennung

PB16 liegt fest auf GND

4.12. USB_B-Buchse (Slaveport zur Programmierung)

1: - (hier könnten vom Host +5V anliegen, darum frei)
2: USB-
3: USB+
4: GND
Schirm: GND

4.13. FLASH-Taster SW2

Dieser Taster zieht bei Betätigung die Leitung „Override_Nand“ nach GND.

5. Neuprogrammierung mit SAM-BA vom PC aus (Linux oder Windows)

5.1. Neuprogrammierung

SAM-BA (immer die aktuellste Version mit Patches - siehe ATMEL Website!) muss auf dem PC installiert sein. SAM-BA hat nichts mit dem Linux-Client smb für Windows-Netze zu tun, sondern ist ein Programmiertool der Firma Atmel für deren Prozessoren.

5.2. Ablauf der Programmierung

1. Development-Board stromlos machen (12V-stecker ziehen)
2. USB-Kabel (A/B) von einem Host-Port des PC mit dem Slave-Port des Development-Boards verbinden
3. Taster SW2 gedrückt halten
4. Development-Board mit Strom versorgen (12V-Stecker einstecken)
5. Warten bis der serielle Port am PC erkannt wird
6. Taster SW2 loslassen
7. Programmierung mit SAM-BA gemäß Anweisungen auf der Atmel-Webseite durchführen

Hinweis:

Eine Neuprogrammierung ist im Normalfall nicht notwendig. Bootloader, Linux und diverse Anwendungstools (ALL4500 Firmware) sind bereits vorinstalliert. Beim Neuprogrammieren können Sie den Bootloader, Linux-Kernel, Filesysteme und vieles mehr selber an beliebige Speicheradressen schreiben. Bei Fehlbedienung oder Fehlprogrammierung muss das Board zur kostenpflichtigen Neuprogrammierung auf Basiswerte eingeschickt werden!

5.3. Hinweis zur Verwendung des Entwicklungskits und Support

Allnet bietet zu diesem Entwicklungskit keinen Support. Bitte nutzen Sie bei Fragen oder Hilfe zur Programmierung die Suche im Internet bzw. in diversen freien Foren.

6. Hilfe zur Inbetriebnahme

6.1. Beschreibung der Tools in /usr/sbin/

Alle Allnet-Tools melden sich mit einem Versionshinweis und einer Meldung, welche Parameter sie erwarten können. Der Name gibt an, welchen Zweck diese erfüllen:

sqldb_read „tagname“

> Liest aus der globalen Konfigurationsdatenbank den Wert eines Tags aus und gibt diesen aus.

sqldb_write „tagname“ „value“

> Schreibt einen neuen Wert für ein bestimmtes Tag in die globale Konfigurationsdatenbank.

xml_edit „xml_filename“ „xml_section.xml_tagname“ xml_read(0)write(1) („xml_filename“)

> Kann aus einer korrekt formatierten XML-Datei einzelne Felder lesen und auch hineinschreiben.

actor_w_write „actornummer“ „parameter“

> ALL4500/5000: schreibt den Wert für einen logischen Aktor.

actor_r_read „actornummer“

> ALL4500/5000: Liest den Status eines logischen Aktors und gibt diesen aus.

sensor_read_float „logical_sensor_number“

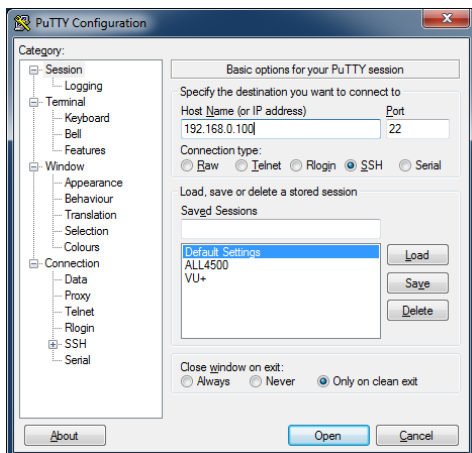
sensor_read_int „logical_sensor_number“

sensor_read_string „logical_sensor_number“

> ALL4500/5000: Liest den Wert eines logischen Sensors und gibt diesen als float, int oder string aus.

6.2. Aufbau einer seriellen Verbindung mit einem Terminalprogramm

Für den Zugriff mittels eines Terminalprogramms wird das Freeware-Tool „PuTTY“ empfohlen. Dazu muss man lediglich den Rechnernamen bzw. IP-Adresse angeben und ggf. den Port ändern (z.B. für SSH Zugriff). Nach erfolgreicher Verbindung mit dem ALL5001 erscheint ein Konsolenfenster zur Eingabe von Benutzername „root“ und Passwort „PortaLuce23“.



Download-Verweis bzw. Information:
<http://de.wikipedia.org/wiki/PuTTY>

Beispiel Screenshot „PuTTY“

6.3. Beschreibung der Download-Files für den ALL5001

Die Beschreibung der Files im Download-Bereich Download ist auf www.allnet.de zu finden: unter „Downloads“, im Drop-Down „ALL5001“ aus der Liste auswählen

sam-ba_2.11_linux.tar

> Atmel-Flashtool inkl. Scripten Falls das Board neu programmiert werden soll.

ALL5001_3.ova

> Voreingerichtete VM mit Toolchain und Source Das „Rundum-Sorglos-Paket“: einfach die Appliance mit VirtualBox oder einem anderen Virtualisierungs-Host öffnen, anmelden, loslegen.

Username: „allnet“, Psswort: „PortaLuce23“

Unter /home/allnet/develop/source/all_i2c sind die Source-Files zu finden und lassen sich direkt hier mit make übersetzen; alle Pfade usw. sind korrekt eingerichtet.

all_i2c_270.tar

> Sourcecode.zip = Sourcecode für alle Allnet-Tools, der aktuelle Quellcode als Tarball.

Toolchain_sourcecode

> Toolchain und Sourcecode für Anwendungen Source und ARM-Crosscompiler-Toolchain (Alternative zur VM)

6.4. Crosscompiler Toolchain und VM

Hinweis: Die VirtualBox von virtualbox.org downloaden und installieren (verfügbar für Windows, Mac und Linux). Anschließend die ALL5001_3.ova als Appliance importieren und starten.

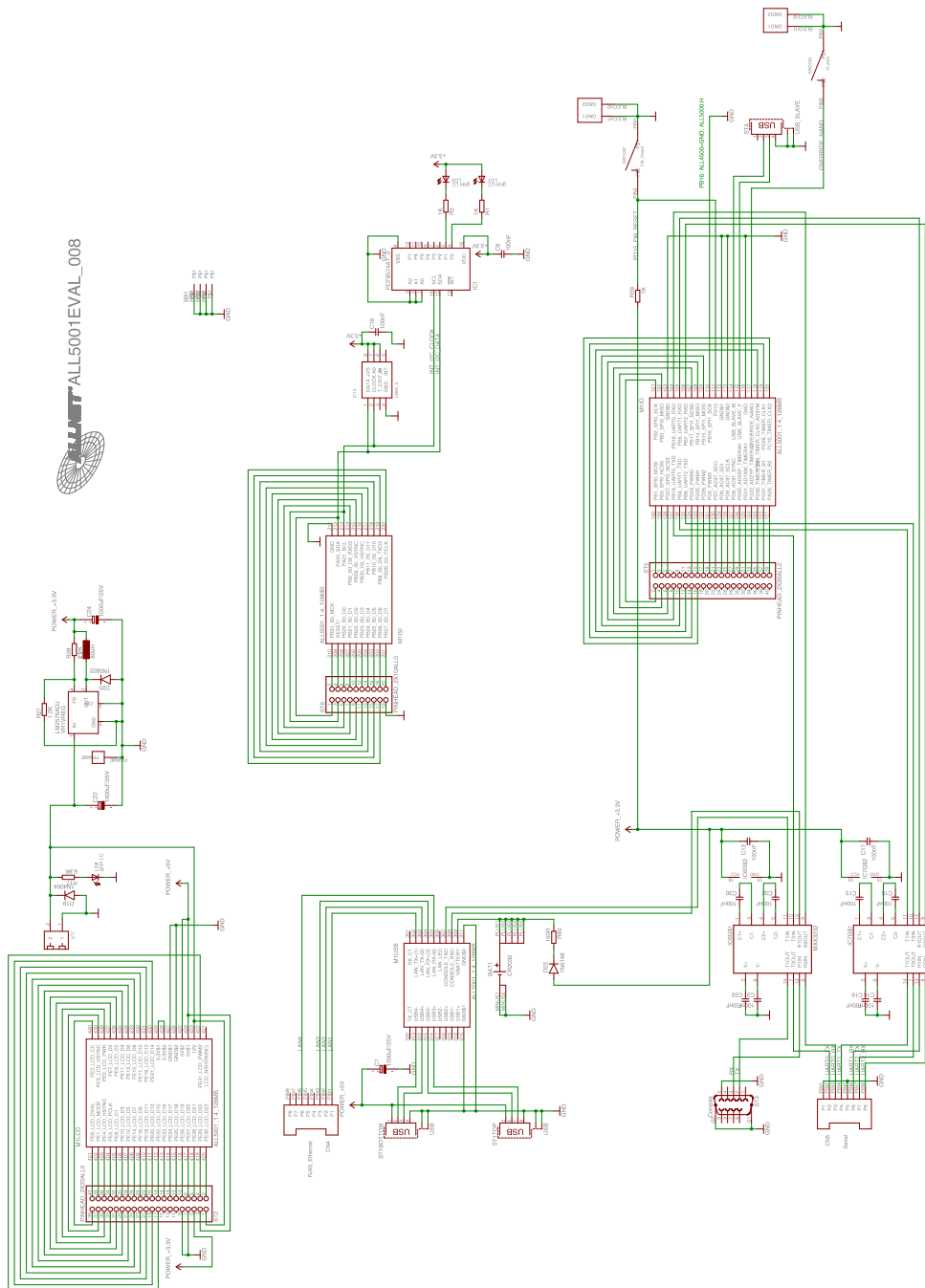
Nun kann man sich auf der Konsole anmelden, die Quelltexte editieren und übersetzen. Es ist keinerlei Konfiguration nötig!

6.5. Beschreibung der Platine und des Schaltplans

Die Platine wird mit 12V (z.B. aus einem Steckernetzteil) versorgt.

Die 3.3V für die Logikschaltungen auf dem Board und auch für Anwenderschaltungen sind mit bis zu 1 A belastbar.

Die 5V für den USB-Host-Port kommen von einem kleinen Schaltregler direkt auf dem ALL5001-Board und dürfen mit bis zu 500 mA belastet werden.



7. Wichtige Hinweise

7.1 Verpackungsverordnung

„Grundsätzlich sind Hersteller wie auch Vertreiber verpflichtet dafür zu sorgen, dass Verkaufsverpackungen prinzipiell nach Gebrauch wieder vom Endverbraucher zurückgenommen und einer erneuten Verwendung oder einer stofflichen Verwertung zugeführt werden.“ (gemäß § 4 Satz 1 der VerpackVO)

Sollten Sie als Kunde Probleme bei der Entsorgung der Verpackungs- und Versandmaterialien haben, schreiben Sie bitte eine Email an info@allnet.de.

7.2. Recyclehinweis und RoHS Konformität



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7.3. CE-Kennzeichnung



Das ALLNET® ALL5001 Development Kit trägt die CE-Kennzeichnung.

Dieses Gerät erfüllt die Anforderungen der EU-Richtlinie: 89/336/EG Richtlinie über elektromagnetische Verträglichkeit und die gegenseitige Anerkennung ihrer Konformität. Die Konformität mit der o.a. Richtlinie wird durch das CE-Zeichen auf dem Gerät bestätigt.

8. Hersteller und Support

ALLNET® ist ein eingetragenes Warenzeichen der **ALLNET® GmbH**. Bei Fragen, Problemen und für Produktinformationen sämtlicher Art wenden Sie sich bitte direkt an den Hersteller:

ALLNET® GmbH Computersysteme

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Internet: www.allnet.de

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