

# INSTALLATION GUIDE

Junghanns.NET unoGSM CARD

HELLO!

MY NAME IS BILL AND I WILL GUIDE YOU THROUGH THE  
INSTALLATION OF JUNGHANNS.NET UNOGSM CARD.

THANK YOU FOR CHOOSING A JUNGHANNS.NET GSM  
INTERFACE CARD!



## PREPARING THE INSTALLATION:

PLEASE MAKE SURE THAT YOU HAVE THE **LINUX KERNEL SOURCES** OF YOUR PRESENT KERNEL INSTALLED AND CONFIGURED PROPERLY ON YOUR SYSTEM.

BRISTUFF REQUIRES THE FOLLOWING PACKAGES INSTALLED ON YOUR SYSTEM:

FOR SUSE LINUX:

- gcc
- OpenSSL
- OpenSSL-dev
- wget

Installation with YaST

FOR DEBIAN:

- build-essential
- libncurses5-dev
- libssl-dev
- wget

```
Server:~ # apt-get install build-essential  
libncurses5-dev libssl-dev wget
```

ADDITIONALLY YOUR COMPUTER HAS TO BE CONNECTED TO THE INTERNET.



## TASK SUMMARY:



TO INSTALL THE JUNGHANNS-NET UNOGSM CARD, YOU HAVE TO FOLLOW THESE GENERAL STEPS:

1. CONFIGURE THE JUMPER SETTINGS ON YOUR JUNGHANNS-NET UNOGSM CARD
2. INSTALL THE JUNGHANNS-NET UNOGSM CARD IN YOUR COMPUTER
3. INSTALL THE DRIVERS AND CONFIGURE THE CARD FOR YOUR OPERATING SYSTEM

## 1. JUMPERSETTINGS



SO LET'S START WITH THE JUMPERSETTINGS!

THE FOLLOWING JUMPERS MUST BE CONFIGURED ON THE CARD:

1. CARD ID SWITCHES

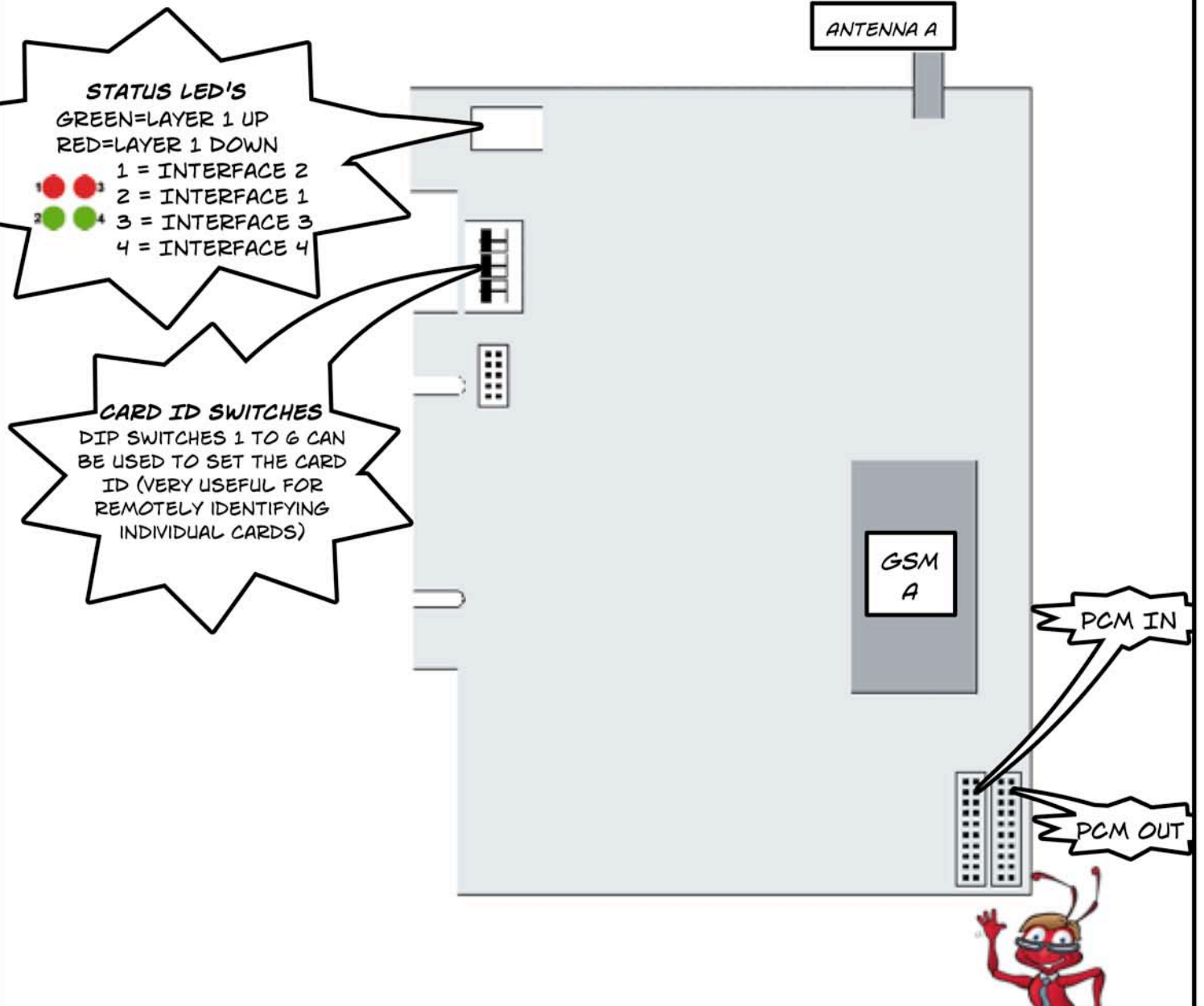
NOTE: FOR MOST USERS IT IS NOT NECESSARY TO CHANGE THE CARD ID SWITCHES

### **WARNING:**

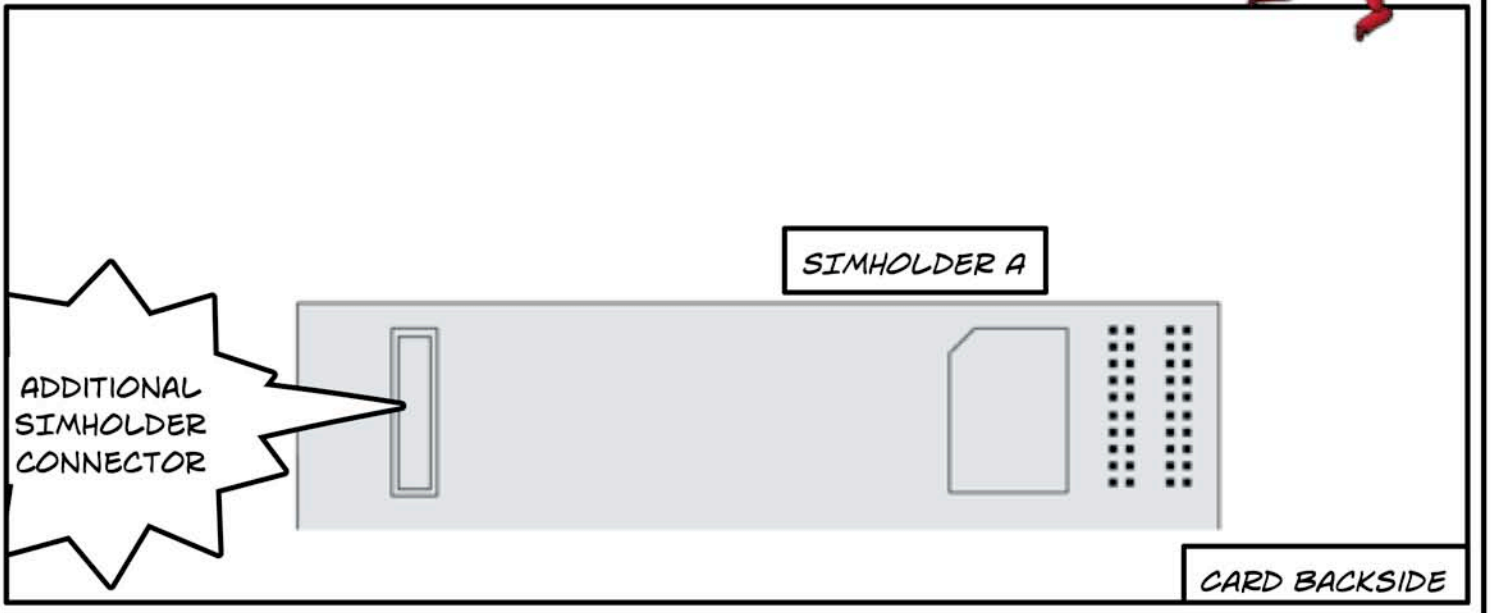
ENSURE THE RIGHT SETTING OF JUMPERS TO PREVENT DAMAGE ON YOUR ISDN AND COMPUTER EQUIPMENT.



# UNOGSM PCI CARD CONFIGURATION OVERVIEW



## TOP VIEW OF THE CARD



## 2.INSTALLATION IN YOUR COMPUTER

### YOU NEED:

- THE JUNGHANNS.NET ISDN INTERFACE CARD YOU WANT TO INSTALL
- AN ANTI-STATIC WRISTBAND
- A PHLLIPS-HEAD SCREWDRIVER
- A FREE PCI SLOT\*

\* PLEASE DEACTIVATE THE IRQ-SHARING



1. OPEN THE COMPUTER CASE
2. UNSCREW THE METAL GUARD COVERING THE REAR OPENING FOR THE PCI SLOT
3. GENTLY INSERT THE TABBED EDGE OF THE PCI CARD INTO THE SLOT
4. PRESS DOWN FIRMLY ON THE TOP EDGE OF THE CARD UNTIL YOU HEAR THE PINS CLICK INTO PLACE
5. CHECK THE ALIGNMENT OF THE METAL BRACKET. IF THE CARD IS PLACED CORRECTLY, YOU CAN FIX IT WITH THE SCREW YOU REMOVED IN STEP 2.
6. CLOSE THE COMPUTER CASE

JUST BUILD IN YOUR PCI CARD



### **WARNING:**

ENSURE YOU TURNED OF THE COMPUTER AND REMOVED ALL CABLES FROM THE BACK BEFORE OPENING THE COMPUTER CASE!



ALWAYS PICK UP THE CARD BY ITS METAL BRACKET AND THE OUTER EDGE OF THE SILICON BOARD AND TAKE CARE NOT TO TOUCH ANY GOLD CIRCUITRY!

### 3. CONFIGURE AND INSTALL THE DRIVERS

AT FIRST FIND OUT THE LATEST BRISTUFF DRIVER VERSION AT OUR WEBSITE:

<http://www.junghanns.net/en/download.html>



TO INSTALL THE BRISTUFF DRIVERS FOR YOUR CARD PLEASE LOGIN TO YOUR COMPUTER AS **ROOT**.

IN THE FOLLOWING STEPS YOU REPLACE "<VERSION>" WITH THE LATEST VERSION NUMBER, E.G. 0.3.0-PRE-1y-q

CHANGE THE DIRECTORY TO /usr/src/ :

```
Server:~ # cd /usr/src/
```

DOWNLOAD THE BRISTUFF DRIVERS:

```
Server:~ # wget http://www.junghanns.net/downloads/  
bristuff-<version>.tar.gz
```

EXECUTE THE "TAR" COMMAND TO DECOMPRESS THE DRIVER FILES:

```
Server:~ # tar xvf bristuff-<version>.tar.gz
```

NOW RUN THE FOLLOWING COMMANDS TO INSTALL THE BRISTUFF AND ASTERISK DRIVERS:

```
Server:~ # cd /usr/src/bristuff-<version>/  
Server:~ # ./install.sh
```

DURING THE INSTALLATION YOU HAVE TO PRESS <ENTER> A FEW TIMES. IF THERE WERE NO ERRORS DURING THE INSTALLATION PROCESS THE INSTALLATION HAD BEEN SUCCESSFULL.

#### 4. COPY THE CONFIGURATION FILES



NOW WE NEED TO COPY SOME CONFIGURATION FILES. COPY THE ZTGSM/ZAPATA.CONF.UNOGSM TO /ETC/ASTERISK AND COPY THE ZTGSM/ZAPTEL.CONF.UNOGSM FILE TO /ETC

```
Server:~ # cd /usr/src/bristuff-<version>/  
Server:~ # cp ztgsm/zapata.conf.unoGSM /etc/  
asterisk/zapata.conf  
Server:~ # cp ztgsm/zaptel.conf.unoGSM /etc/  
zaptel.conf
```

THE INSTALLATION OF THE DRIVERS IS COMPLETED AT THIS POINT. NOW WE ARE ABLE TO LOAD THE DRIVERS.

TO LOAD THE DRIVERS WE HAVE TO RUN THE FOLLOWING COMMANDS:

```
Server:~ # modprobe ztgsm  
Server:~ # ztcfg
```

IF THE DRIVERS WERE INSTALLED CORRECTLY, THE LIGHTS ON THE CARD WILL TURN ON AFTER YOU HAVE LOADED THE DRIVERS.

#### **WARNING:**

IF YOU HAVE ANY OTHER ZAPTEL DEVICE IN YOUR MACHINE THEN MAKE SURE THAT ZTCFG ONLY RUNS ONCE! (OR RUN ZTCFG -S AND THEN ZTCFG AGAIN)



TO START YOUR ASTERISK CLI JUST RUN THE FOLLOWING COMMAND:

```
Server:~ # asterisk -vvvgc
```

SO WE ARE DONE AND ALL I HAVE TO SAY IS HAVE FUN AND GOOD BYE. SEE YOU NEXT TIME, YOUR ANT BILL.