

How to Assemble and License D-Link Products



Step 1

Remove the chassis cover and
open the panel windows

Remove Cover

Remove screws



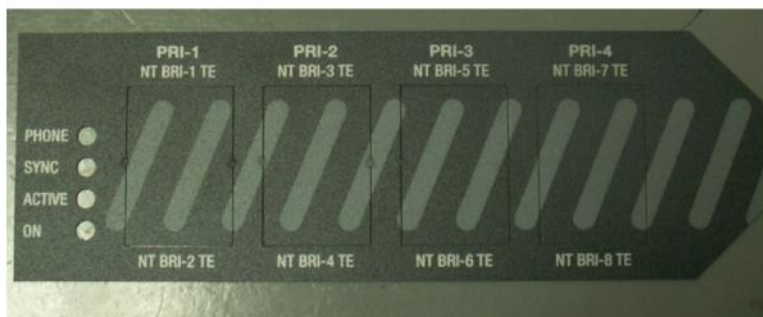
Slide cover out towards rear

Step 2

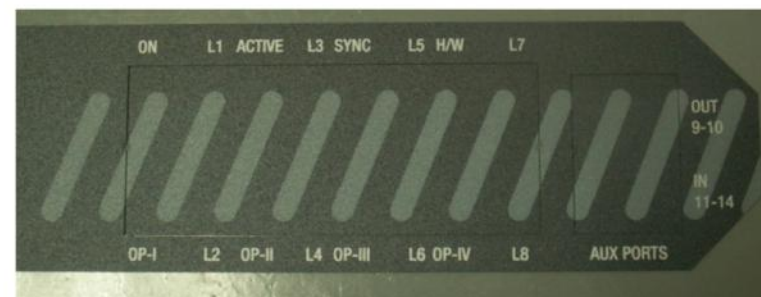
Insert the telephony interface modules

Choose Left-Most Module Label

Digital: PRI or BRI



Analog: FXS or FXO



Removable Metal Tabs in Chassis

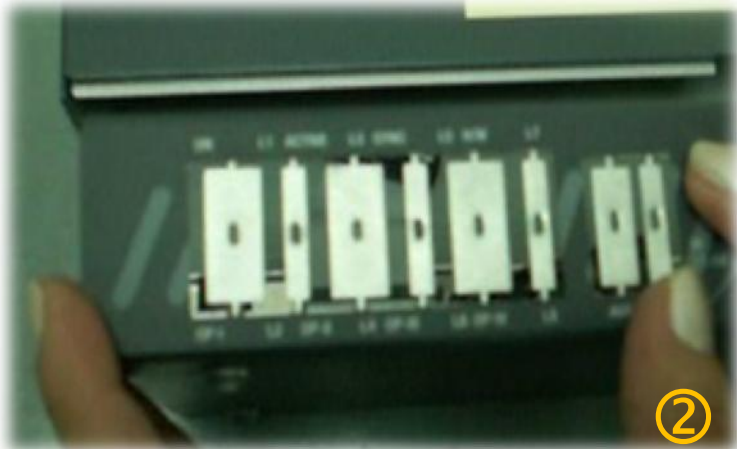


Assembly Process



①

① Remove label tabs



②

② Place label over chassis to identify metal tabs for removal



③

③ Glue label on chassis



④

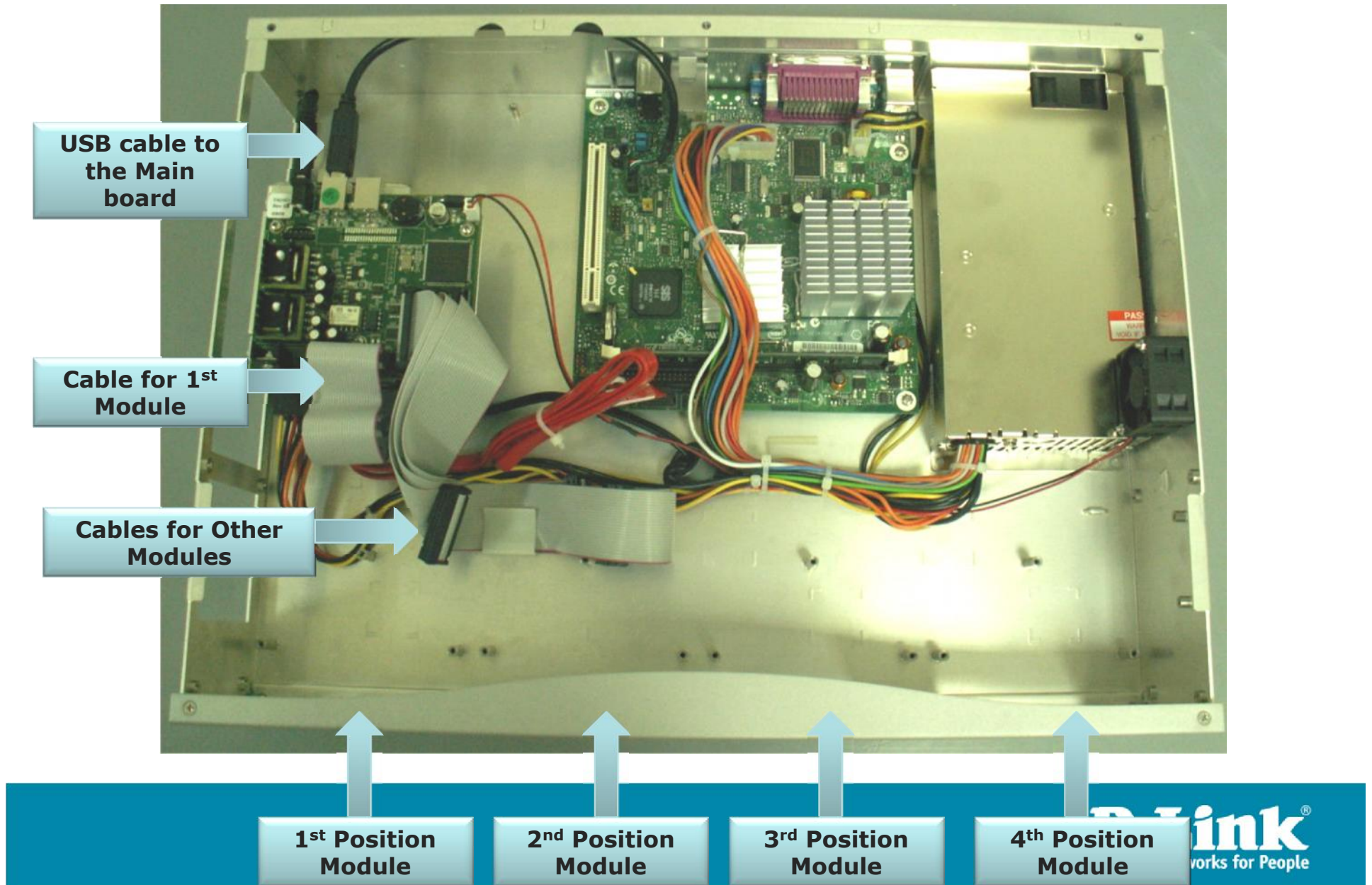
④ Remove metal tabs



⑤

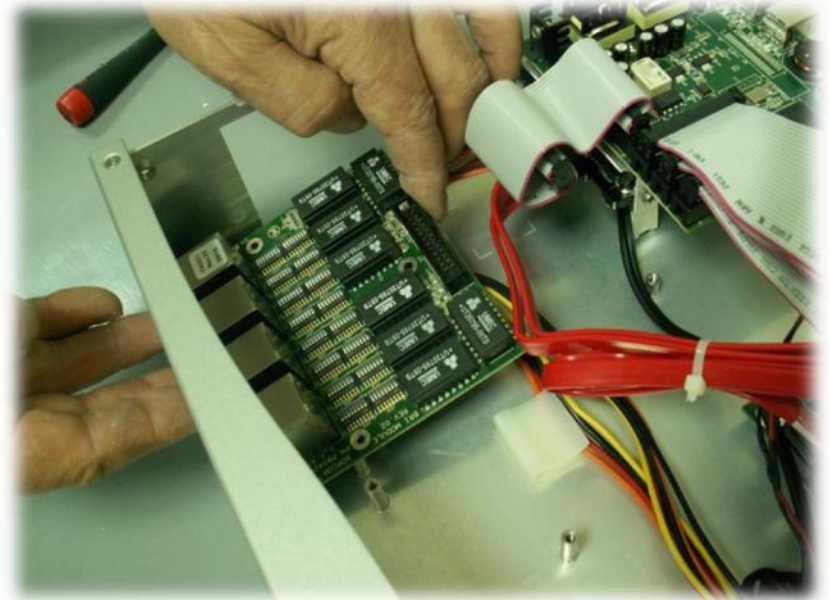
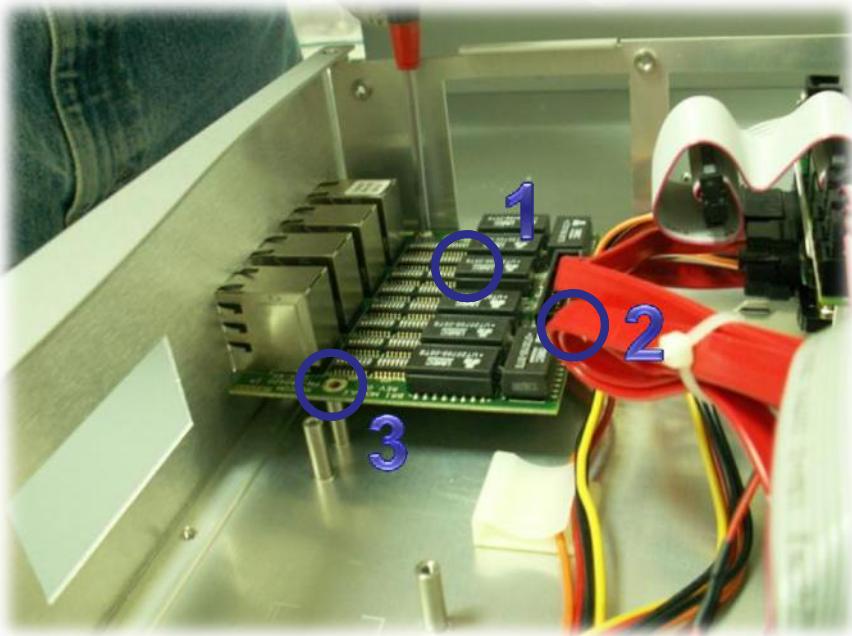
⑤ Insert module into chassis

Module-less Upgradable Chassis



Inserting the Modules

Insert the modules (start on the left)

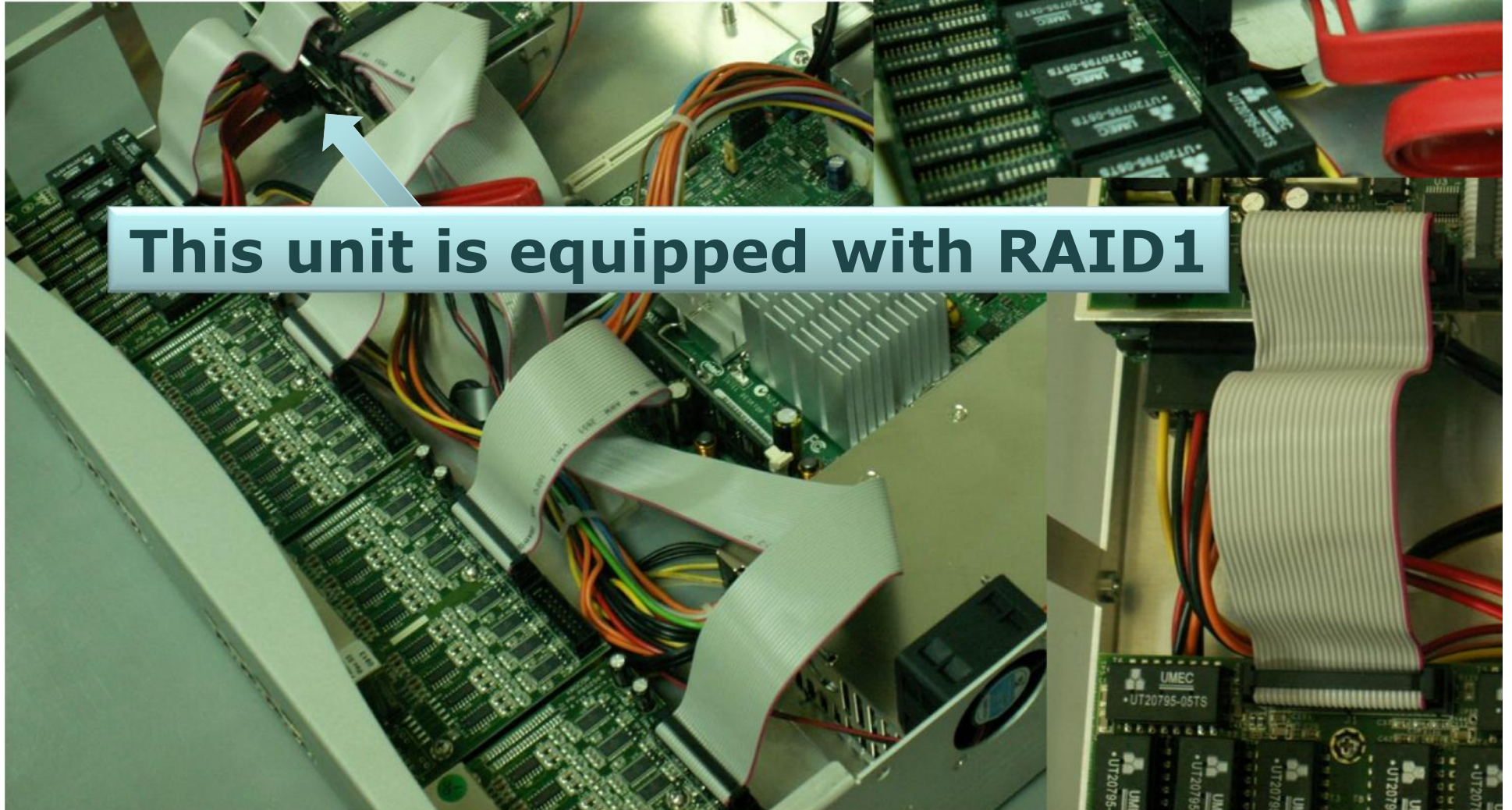


Secure it with 3 screws

Step 3

Attach the cables and replace the cover

Attach Cables



Close the Chassis Cover

Replace the cover (back to front)



Replace the screws



Step 4

Generate the license

A. Generating the License

- › Dlink Team identifies the current license
 - Accesses the unit via SSH
 - Identifies the relevant USB port and device
 - Runs command to produce license output

```
# lsusb  
Bus 003 Device 001: ID 0000:0000  
Bus 002 Device 001: ID 0000:0000  
Bus 001 Device 001: ID 0000:0000  
Bus 001 Device 002: ID e4e4:1162  
Bus 004 Device 001: ID 0000:0000
```



B. Activating the License

- › We will need to generate the License
- › After generating the license customer has to send a mail to D-Link Team
- › D-Link will verifies license output and will generates new license and send the new generated license

C. Implementing the License

- › Dlink team will access the unit via SSH or the customer can do the licensing
- › Pastes the content of the updated license file in the command line
- › Reset the unit
- › New ports are now activated, but will need to be configured and tested prior to operation

Generating D-Link Licenses

- › Use the following procedure to activate digital ports and new analog modules. The process will update the unit's firmware with a relevant software license unique to the D-Link device at hand.
- › ***Stage 1: Determining the Existing License for the D-Link Unit***
 - › 1. Access the Asterisk server via SSH protocol.
 - › 2. Use the following command to see which USB devices are connected:
 - › # lsusb then press Enter
 - › Here is a sample result:
 - › Bus 003 Device 001: ID 0000:0000
 - › Bus 002 Device 001: ID 0000:0000
 - › Bus 001 Device 001: ID 0000:0000
 - › Bus 001 Device 002: **ID e4e4:1162**
 - › Bus 004 Device 001: ID 0000:0000

3. Mark down the **Bus #** and the **Device #** for the USB device with an ID that begins "e4e4:116". As per our example in step 2 above, we would indicate **Bus = 001** and **Device = 002**.

4. Use the following command to receive a listing of the current license of the unit:

› # astribank_allow -D /proc/bus/usb/[Bus #]/[Device #]
then press Enter

As per our example in step 2 above, our command line would be:

› # astribank_allow -D /proc/bus/usb/001/002

5. On the screen which appears, copy all text to the clipboard.

The text begins with-----BEGIN XORCOM LICENSE BLOCK---- and ends with--
---END XORCOM LICENSE BLOCK-----

› 6. Save this output in a file named license.txt.

› **Stage 2: Ports/Functionality**

- › 1. Its time send an email with the below details
 - a. Check the modules/ports/functionality that you want to **add** to the unit
 - b. Include the license.txt file you generated in the previous step
- › 2. D-Link will verify the license output and generate a new license as per your purchase order called new-license.txt.

Stop Asterisk using the following command:

› /etc/init.d/asterisk stop

Stop DAHDI using the following command:

› /etc/init.d/dahdi stop

Use the following command to apply the updated license to the unit:

› # astring_allow -D /proc/bus/usb/[Bus #]/[Device #] -w

then press Enter

Paste the contents of the new-license.txt file you received from D-Link into the command line.

press Enter

then press "Ctrl+D"

Next, you will need to restart the D-Link firmware.

DAHDI users should run the following command:

› /usr/share/dahdi/xpp_fxloader reset

Now start Dahdi and Asterisk

› /etc/init.d/dahdi start

› /etc/init.d/asterisk start

No to Detect Module

› /var/lib/asterisk/bin/detect_zap

The new ports are now activated, but will need to be configured and tested prior to use.

Thank You

MANJITH

