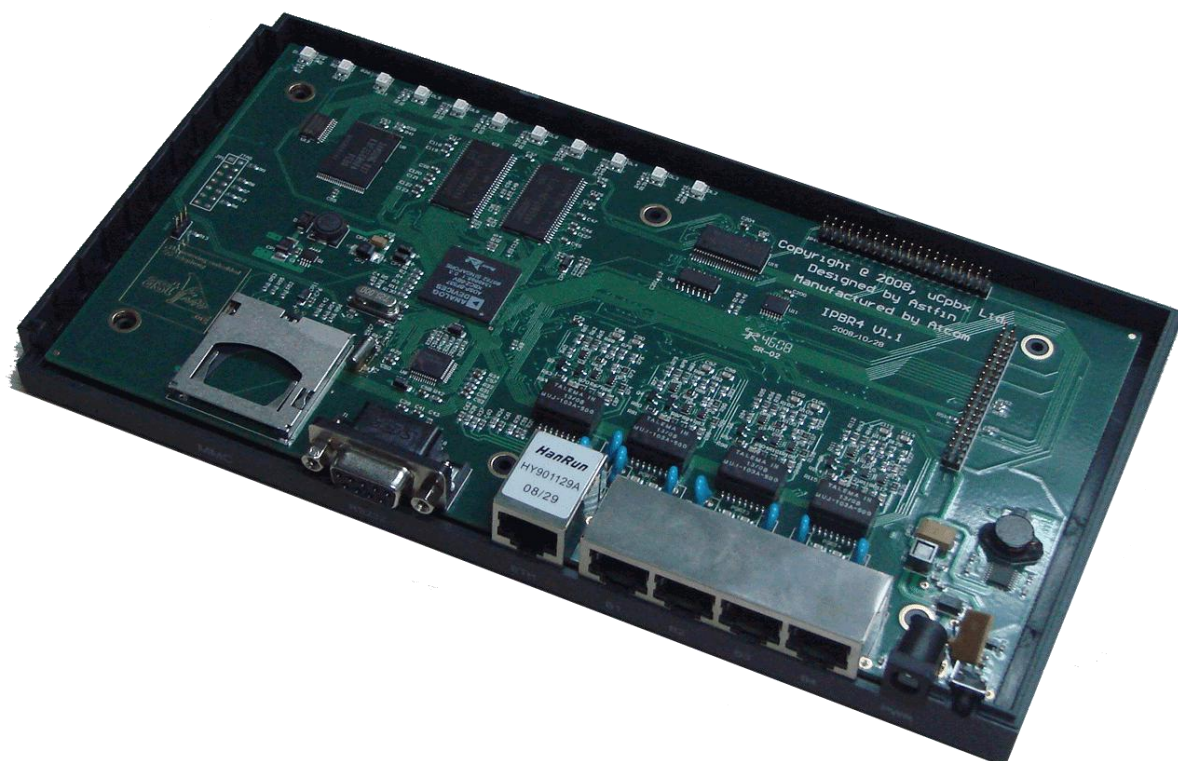


# BR4 - DATASHEET



# Technical information



*\*picture without LEC module*

## 2.1. System: **uClinux, Astfin**

Our PBXs are driven by our own telephony oriented, Open Source uClinux distribution called **Astfin**( <http://blog.astfin.org>). Current version of Astfin provides **Asterisk 1.4.x**, **Zaptel 1.4.x** and **Libpri 1.4.x** together with custom kernel modules to support our hardware. Additional applications such as PPPoE, SMTP forwarder, NTPd and many more are also provided to extend usability of the BR4-Appliance under different scenarios.



## 2.2. Hardware:

- ADSP - BF537 600MHz CPU. DSP core for the media processing.
- 64MB of SDRAM
- 256KB serial flash for the boot-loader
- 256MB NAND flash for voicemail and prompts.
- SD card interface on a dedicated bus.
- Watchdog timer
- Optional, hardware based, G-168 Line Echo Cancellation.

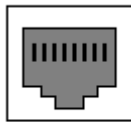
## 2.3. Interfaces

- QUAD ISDN (2B + 1D) interface
- TE with PTP and PTMP
- EuroISDN (mISDN)
- 10/100Mbps Ethernet port with high performance PHY
- RS232 for console connectivity (115k, 8-N-1)

### 2.3.1. Interface cables

- For the Ethernet connection you have to use:
- In case you connect to router, switch and etc. Ethernet patch cable
- In case you connect to other PBX device crossover cable
- ISDN ports – the BR4 PBX has 4 ISDN ports:

1 2 3 4 5 6 7 8



RJ-45  
Female

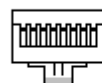
Pin	Description
3	TX+
6	TX-
4	RX+
5	RX-

- To connect the BR4-Appliance (TE mode) ISDN port to your telecommunication equipment you should use standard Ethernet “patch” cable. The configuration is:

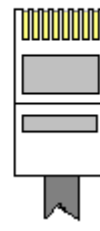
RJ-45 Male  
Plug



8 7 6 5 4 3 2 1

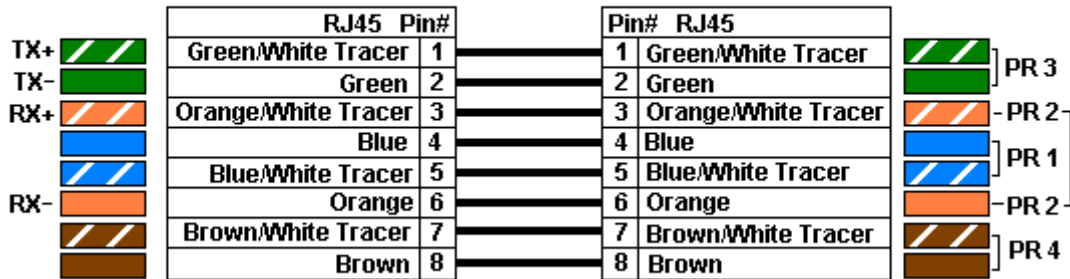


1 2 3 4 5 6 7 8

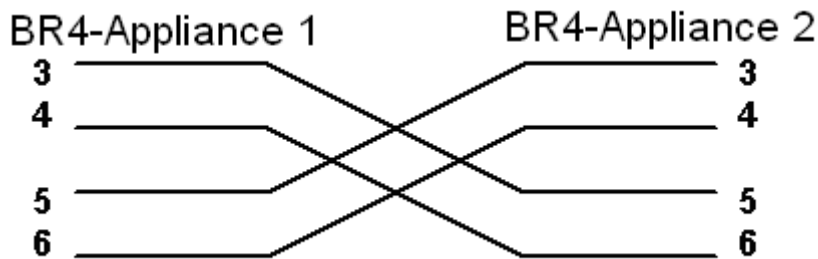


Color Standard  
EIA/TIA T568A

Ethernet Patch Cable



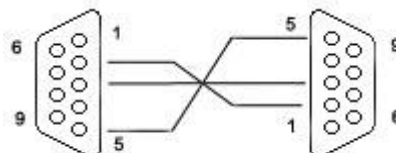
Keep in mind that if you want to use BR4-Appliance in NT mode you will need an ISDN crossover cable as shown below:



You will need to use 100Ω external resistive termination (between both TX+,TX- and RX+,RX-) at one of the end of the ISDN connection. BR4-Appliance doesn't provide phantom power on its ISDN ports. If you are connecting ISDN telephone which requires power from the ISDN line you have to implement this externally.

- Serial Port cable

You need serial patch cable for the console access to your PBX from a PC. The schematic of the cable is:



## 2.4. Applications

- VoIP / TDM Gateways
- PBX / IVR functionality
- VoIP Services
- Conferencing
- Custom platforms
- Voice Routing
- Custom Development

## 2.5. Additional information

- Power supply 6 - 12VDC
- Current consumption – idle state 150 mA
- Dimensions: 224 x 122 x 30 mm (8” 13/16 x 4” 13/16 x 1” 3/16)
- 12V, 2A power adapter is included

