

- CE (EN 55 022, EN 55 024, EN 60 950)
- TBR-3 (ISDN BRI)
- TBR-4 (ISDN BRI)

beronet*fix



Specification

Hardware

- CPU: Mindspeed Comcerto 500, ARM9 dual core, 266MHz, DSP Unit for Voiceprocessing
- Memory: Onboard SDRAM 64MB
- Operating system: Linux 2.6.x with beroNet firmware
- Lineinterfaces: can take two line interface modules , available modules are BF4S0 (4xBRI), BF1E1 (1xPRI) and BF2E1 (2xPRI)
- PCI 2.2 compliant, 3.3V , also fits in 5V slots but 3.3V needed.
- PCI express 1.0a compliant
- PCI/PCIe interface: Realtek chipset RTL8139CL (PCI) and RTL8101E (PCIe)
- Driver for Linux, Windows , BSD and MacOS available through your OS or Realtek Semiconductor Corp

ISDN

- Up to 8 Ports BRI, up to 4 Ports PRI
- ISDN Lineinterfaces mixable (BRI/S0+PRI/E1)
- Protocols:
 - DSS-1 (L1, L2)
 - Q.931
 - basic Q.SIG (CNIP, CNIR, CONP)
- Point to point (PTP) & point to multipoint (PTMP)
- BRI modes: TE and NT, switchable by software
- PRI modes: TE and NT

SIP

- Useragent is compliant to IETF RFC3261
- SIP over UDP and TCP
- SRTP: secure RTP*
- SIPS: SIP over TCP with TLS*
- Overlap dialing (SIP-INFO)

FAX and Data support

- Fax processing through Mindspeed chipset:
 - V.27 (4.8 Kbps and 2.4 Kbps)
 - V.29 (9.6 Kbps and 7.2 Kbps)
 - V.17 (14.4 Kbps – 7.2 Kbps)
- Fax over IP with T.38 fax relay
- Virtual modem software (t38modem) available for Linux and Windows
- RTP clear channel* for transparent TDM transmission over IP
- PCM Bus: hardware bridging for transparent TDM transmission, 8.192 kb/s
- TDM bridging over multiple cards through PCM bus interconnection*

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Audioprocessing

- Voice codecs
 - G.711u/A-law
 - G.723.1
 - G.729a/b
 - G.726
- G.168/G.165 echo cancellation (128ms)
- patented dynamic jitterbuffer with packet loss concealment
- Call progress tone detection/generation
- DTMF digit detection
- Voice activity detection / comfort noise generation
- Fax detection

Management

- Web based GUI
- CLI interface accessible through Telnet
- HTTP based API for integration
- Diagnostic tools on board
- Firmware upgradable through Web GUI
- Autoprovisioning

Call routing

- Integrated call routing dialplan configurable through web GUI: SIP->PSTN, PSTN->SIP, PSTN->PSTN

Power and packaging

- Dimensions of the base board: W 167 x H 9,85 x D 15 mm
- Dimensions of the box variant: W 168 x H 42 x D 168 mm
- Weight:
 - Baseboard: 110g
 - BF4S0: 28g
 - BF1E1: 25g
 - BF2E1: 30g
 - empty box cassis: 545g
- Power (box variant): 3.3V
- Power consumption: < 4W

Environment

- Operating temperature: 0-70°C

Compliance

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*available soon