ISDNguard ®

Productsheet

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The **Junghanns.NET ISDNguard®** is an automatic layer 1 failover switch that has been exclusively designed for the Asterisk™ open source PBX.

It can be used for various failover scenarios that require a physical reconnection of up to 4 BRI/PRI interfaces (see Application 1 and 2).

The Asterisk™ server provides a heartbeat to the **ISDNguard®** over a serial (RS232) interface. If the heartbeat stops the **ISDN-guard®** will go into failover state, directly connecting the ISDN NET with the ISDN CPE ports indicated by the red failover LED.

In normal operation the heartbeat stops whenever the Asterisk™ server is stopped. A configuration option allows the heartbeat to continue if the Asterisk™ server was cleanly shut down.

Multiple **ISDNguards®** can be cascaded so they can be switched by a single Asterisk™ server with a single RS232 interface.

In case of a power failure the **ISDNguard®** will automatically fall back to failover state.

Target applications

- *Integration of ISDN equipment*
- *PBX with redundant BRI/PRI ports*
- *Redundant VoIP gateways*
- *Layer 1 port switch*

Case

- 19″ rack mountable
- 1 unit height
- brushed stainless steel

Interfaces

- 1 RS232 (heartbeat)
- 1 110/230 V Powerconnector
- 2 DIN5 (cascading)
- 4 shielded RJ45 (ISDN CPE)
- 4 shielded RJ45 (ISDN NET)
- 4 shielded RJ45 (Asterisk CPE)
- 4 shielded RJ45 (Asterisk NET)
- 4 shielded RJ45 (octoBRI ISDN)
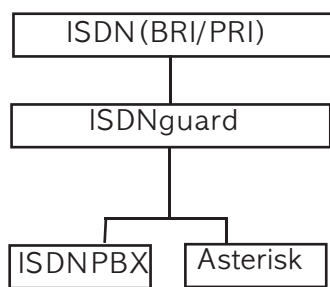 (for connecting a Junghanns.NET octoBRI® PCI ISDN directly)

LED indicators

- Power ok (green)
- Heartbeat ok (green)
- Failover state (red)

Requirements

- Linux / *BSD operating system
- RS232 (D-SUB 9) interface
- 110 / 220 V power outlet

Application 1:
Integration of an ISDN PBX with failover

Application 2:
Failover of ISDN lines to a backup Asterisk