

ISDNguard failover switch

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 **ISDNguard** 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)
- 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

Availability

- March 2005

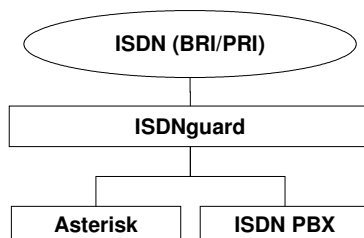
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Application 1:

Integration of an ISDN PBX with failover



Application 2:

Failover of ISDN lines to a backup Asterisk

