



Odin TeleSystems Inc.

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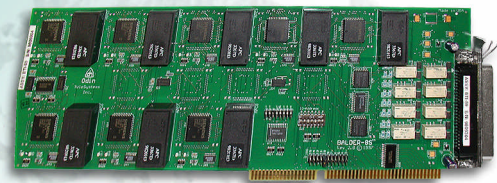
The Balder-8S-ISA Revision 2.0, is an Integrated Services Digital Network (ISDN) interface card for ISA-based computers providing eight Basic Rate S/T Interfaces.

Balder-8S provides a cost-effective and versatile solution for the development of various ISDN systems utilizing the S/T-Interface. Balder-8S is especially suitable for applications targeted at testing of ISDN networks and switching systems.

The Balder-8S board can generate signaling traffic on 8 16kbit/s D-channels, and transmit user data on 16 64 kbit/s B-channels. The Balder-8S adapter can be configured to operate as the TE (Terminal) or NT (Exchange). A third operation mode, Monitor mode, is also available allowing the Balder-8S adapter to be used to monitor up to 4 full BRI links. Up to four Balder-8S boards can be placed in one PC, although just one Balder-8S board is sufficient to test or monitor complex ISDN features, such as call forwarding, call transfer, conference calling, etc.

The Balder-8S adapter contains 8 digital signal processors (DSPs, TI TMS320C542), one per BRI. The DSPs can be programmed to perform tone detection and generation as well as voice or HDLC processing on B- or D-channels.

Balder-8S-ISA



Balder-8S-ISA ISDN BRI Adapter

Feature Highlights

- Support for 8 ISDN S/T-interfaces (compliant with International Telecommunications Union, Telecommunications Standardization Sector, ITU-T, standard I.430)
- 8 DSPs (one per 2B+D). The DSPs can be programmed to perform tone detection and generation as well as signal filtering or HDLC processing.
- 2 analog front-ends performing A/D and D/A conversions for external handsets and/or speakers. The handsets are switchable to any B-channel on any access.
- Three operation modes: Terminal (TE), Exchange (NT), and Monitor.

Balder -8S-ISA Product Brief

Applications

<p><i>Provides applications capabilities for the following, plus others:</i></p>	<ul style="list-style-type: none"> • Computer Telephony Integration • Customer Premise Equipment • Network Access Devices • Signaling Simulators • Protocol Analyzers
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Software Support

<p>The Balder-8S board is delivered with a software driver, a C-language function library and an Application Programming Interface (API), allowing easy integration with a variety of applications.</p>	<p>The Balder-8S driver is available for Windows 95, Windows NT, and MS-DOS operating systems. The Digital Signal Processors can be programmed using ANSI C-Language and standard third-party development tools. The driver is supplied with ready-to-use DSP applications for DTMF generation and detection, Caller-ID (FSK) reception, and HDLC signaling on the B-channels .</p>
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Technical Specifications

<i>Board</i>	<ul style="list-style-type: none"> • Full-length IBM compatible PC extension board
<i>Bus Interface</i>	<ul style="list-style-type: none"> • Industry Standard Architecture (ISA) • Requires 32 free I/O-addresses (H'100-H'3FF)
<i>Network Interfaces</i>	<ul style="list-style-type: none"> • 8 ISDN Basic Rate S Interfaces (ANSI T1.408, ITU-T I.430)
<i>Signal Processing Features</i>	<ul style="list-style-type: none"> • 8 Digital Signal Processors (TI TMS320C542)
<i>Error Checking</i>	<ul style="list-style-type: none"> • CRC generation and checking
<i>Testing Features</i>	<ul style="list-style-type: none"> • Channel loop-back where the line interface receive pair is looped back to transmit pair • Test mode output of 2kHz square signal

Ordering Information

<i>Product Name/Product Category</i>	Balder-8S-ISA/HAA-1003-1-2.0
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Contact Information

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