ATOE1

The demand for phone and fax connections is outpacing the expansion capacity of network infrastructures throughout the world. Modifying and expanding this infrastructure can be both costly and time consuming. Similarly, carriers are seeking ways to maximize their investment on costly trunk lines. This Backhaul optimizer product offers application layer switching, featuring unique traffic optimization and statistical multiplexing for maximum efficiency as well as application-aware QoS for Voice, Data and Signaling. The A.bis / A.ter Optimizer can meet the following needs of network operators.

- Increased revenue through improved network utilization
- Increased network capacity at minimum incremental cost
- Simplicity and speed of deployment
- High reliability
- Ease of management
- Quick ROI
- Breaking of price-performance barriers.

Key Benefits

- Abis optimization up to 2:1
- Superior performance of 2G Traffic Optimization
- Transparency to all BSS Vendor and release.
- Supports all Voice Codecs: FR, EFR, HR, AMR all rates
- Supports all Data Types: GPRS, EDGE
- Supports all Signaling: 16, 32 and 64 Kbps.
- Supports Signaling timeslots optimization by suppressing Idle HDLC frames.
- Automatic detection of GPRS/EDGE Full and dynamic bearer bandwidth utilization
- Optional Signaling Compression (SS7, ISDN, etc,)
- Modes of operation:
- Single destination / point-to-point,
- Remote in-band management through the bearer

NOTE : The specifications can be changed without notice due to technological advances.
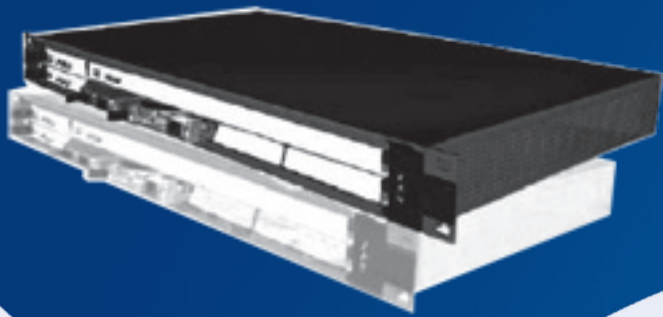
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Technical Specifications

• Interfaces	:	BTS/BSC interface acquiescent with Abis GSM standards
• Bandwidth Saving	:	Up to 60% bandwidth utilization improvement on Abis interface. Removal of unused Time sloots Removal of IDLE Frames from speech. Removal of Silence from speech Removal of IDLE Frames from signaling (LAPD) channels. Unique Statistical Multiplexing scheme to enhance bandwidth utilization
• Latency	:	4ms end to end latency
• Compliances	:	ITU G.703, G.704, G.821, G.826, G.732, I..421, G.823
• Bit Rate	:	2.048 Mbps
• Line Code	:	HBD 3
• Impedance	:	120 balanced
• Redundancy	:	Metallic bypass for 1 E1 Card redundancy (Optional) Power supply redundancy and Full system redundancy (Optional) Availability Target: 99.999% (Redundant Module)- Optional
• Power	:	Max power supply consumption: 50Watts DC power input: -42 to -60 VDC AC power input (Optional)
• Dimensions	:	1U Chassis H x W x D: 30mm x 100mm x 200mm
• Alarms	:	AIS, LOS, LOF, CRC MF Error, E1 Out of Sync

Cost Effective Solutions

For a mobile operator or a wireless data services provider network backhaul is atransparent but critical function in the delivery of communication services to the end user. Often, this infrastructure component relies on T1/E1 leased lines, and while backhaul costs can reach nearly 30% of operating expenses, options that are more reliable and cost-competitive are often overlooked. We understand that telecom operators need systems that meet their specific requirements at strategic as well as at operational levels. Using our product, 50% A.bis / A.ter interface E1 lines are optimized.

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