Athena Access
The Flexible Voice/Data Solution for Branch Office Access

- Multiplexes LAN, legacy and voice/fax traffic streams
- Frame Relay Access and Switching
- X.25 Access and Switching
- IP and IPX Routing
- Single Port Ethernet 10BaseT or Integrated 8-Port Hub
- STAC Data Compression Included
- Frame Relay and IP Voice Networking
- E&M, FXS, FXO, and ISDN BRI Voice Interfaces
- Outstanding voice quality
- ISDN BRI with S/T or U Interface
- 56/64 Kbps CSU/DSU
- Console, Telnet and SNMP manageable
- X.3 PAD
- Annex G Support

ATHENA ACCESS is the right fit for your small office or branch office needs. As a multi-protocol concentrator, it combines LAN, legacy data, and voice networking in a single, high density unit. Whether your business is manufacturing, finance, government, or other commercial enterprise, ATHENA ACCESS delivers solutions that shrink operating costs while expanding your horizons.

ATHENA ACCESS offers integration that saves you money by saving space, eliminating multiple units, and using a single power connection. The work of external terminal adapters and termination units, data sets, Ethernet hubs, and voice multiplexers, are all handled easily by Athena Access. That not only reduces capital and installation costs, but on-going maintenance and support costs, as well.

Frame relay networking offers the most reliable solution for data integrity. When combined with ATHENA ACCESS, frame relay eliminates the high cost of VPN equipment and associated management complexity.

Simply stated, ATHENA ACCESS provides the best possible voice quality, because it has the best algorithms and lowest delay in the industry. With its additional highly advanced voice optimization features, ATHENA ACCESS delivers toll quality voice service over low-cost frame relay lines or the Internet. Now you can implement integrated voice services that rival telco offerings and reap the savings from long distance costs.

Athena Access offers a variety of hardware interface selections and extensive software support that add up to literally dozens of system variations. This wide selection provides the flexibility for effective communications for public and private frame relay, X.25, ISDN, and PPP networks. Any serial port slot can be equipped with any of our modular WAN interfaces, and any protocol can be software-assigned to any port. This high degree of modularity and flexibility spells successful network solutions for you.
**Top Quality Voice**
Develcon’s ATHENA ACCESS delivers outstanding quality using international standards-based compression algorithms such as G.728 Low Delay CELP (LD-CELP), recognized by many users as the optimum solution for lowest bandwidth, least end-to-end delay, and highest voice quality.

**Voice Compression Choices**
And ATHENA ACCESS also offers the widest selection of voice compression algorithms in the industry. Choose from:
- E-CELP at 4.8, 7.47, and 9.6 Kbps
- ITU G.726 ADPCM at 32 Kbps
- ITU G.728 LD-CELP at 16 Kbps
- ITU G.729 CS-ACELP at 8 Kbps

**Voice Features**
Advanced voice optimization features offer:
- toll-quality voice services
- bandwidth savings
- silence suppression
- adaptive jitter buffering
- lost packet error handling
- integral echo cancellation
- Group 3 FAX support

**Analog Voice Interfaces**
Choose the interface to connect your PBX, key system, or telephone set using E&M (2 or 4 wire), FXS, FXO, or ISDN BRI interfaces.

**Async PAD**
ATHENA ACCESS provides a high-density low cost solution for async X.25 PAD applications using a 16-port expansion module. Efficient, effective, and reliable X.25 networking.

**ISDN Flexibility**
ISDN presents great opportunities for very reliable communications and significant cost savings. The ATHENA ACCESS implements ISDN BRI wide area links using frame relay, X.25 or PPP protocols, that can be used for primary network links or for automatic backup links when the primary route fails.

**Standards Compliant Routing**
ATHENA ACCESS is a full IP and IPX router supporting:
- Frame Relay RFC-1490
- X.25 RFC-1356
- PPP, sync and async
- RIP and RIP2, SAP

**Easy Interfaces (EZIFs)**
ATHENA ACCESS incorporates Develcon’s new EZIFs for serial interfaces that make changes easy and economical. The selection of EZIFs range from X21, V24/TIA-232, V.35, 56/64K DSU, and G.703 interfaces.

**Dynamic CIR**
Maximum data throughput is guaranteed by dynamically altering the bandwidth allocation when voice calls are not present. As voice calls are established and voice packets are flowing, only the required amount of the CIR is re-allocated.

**Data Compression**
Make the most of your bandwidth by compressing high volume LAN traffic on to the most cost-effective links using STAC data compression. Throughput is maximized while costs are minimized.

**More Information**
Comprehensive information describing the ATHENA ACCESS hardware and software is available. Contact your local representative or Develcon Electronics Ltd. and ask for Document A21000 Athena Access Product Specification.