

Megabit Modem 801F IAD

High Performance
Voice over DSL Router



The Megabit Modem® 801F is an Integrated Access Device (IAD) that supports basic to premium data services and voice over an ADSL connection (VoDSL). The MM801F provides four voice ports—Tone and Pulse Dialing—that allow phone services over the same line as data. The MM801F connects Ethernet LANs to the Internet or to other types of Wide Area Networks (WANs) for instant, high-speed broadband access. The MM801F also supplies lifeline phone service (in the event of a power failure, one phone connected to the IAD maintains service). This combined solution minimizes the cost of network facilities by putting phone services on the same line with data traffic, which enables carriers to penetrate markets where the existing infrastructure was overwhelmed and unable to accommodate consumer demand for additional and simultaneous voice and data access.

Additionally, the MM801F provides 32 separate connections, called data sessions, which control the security, performance, and users for each. This allows service providers to offer additional services and class of service for Internet access, private ATM networks or connections to application servers like video servers or voice gateways.

It is easy to install and set up the IAD. Users connect both the data and voice equipment to the same device. Then, using a PC, parameters are configured for data and voice services through either a Web browser or a serial interface. The MM801F can also be provisioned and managed through ADC's industry leading StarGazer® Element Management System.

Features:

- Supports 4 simultaneous toll quality voice ports
- Rates up to 7.552 Mbps downstream/ 928 kbps upstream
- Dynamic allocation of bandwidth guarantees Quality of Service (QoS) for voice and data
- Supports both Tone Dialing and Pulse Dialing
- Port-to-port calling
- Compliant to either ADSL (G.992.1, G.992.2) standard
- Lifeline support
- Designed for simple self-installation for non-technical users

Specifications

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| Voice Specifications | Voice CODECs: G.711 64 kbps PCM (μ -Law, A-law), G.726 32 kbps ADPCM G.168 echo cancellation DTMF: Generation, Detection and Removal Line Type: Loop start ITU-T profiles for BLES: 1 and 2 and ATM Forum profiles for BLES: 8, 9, 10, 11 and 12 Voice Ports Interface: 4 RJ-11 jacks Impedance: 600 Ω , Loop Current: 25 mA Ringing: 3 REN per port, Max. 10 REN Compliance: GR 909 |
| Data Specifications | DSL Standards: ADSL (G.dmt, G.lite, T1.413 and Multi-mode) ATM standards: ATM Forum UNI Version 3.1 and UNI Version 4.0 ITU-T Q.2931, Q.2971 signaling ITU I.363.5 ATM Adaptation Layer 5 ITU I.432 Cell Delineation and HEC, ITU I.361 ATM Cell Format Virtual Circuits: 32, Classes of Service: CBR, UBR, VBR-nrt |
| Internetworking Features | PPP: 1332, 1661, 1638, 1570 NAT and NAPT: 1631 DHCP server 2131, 2132 Dynamic IP routing, ARP: 826, RIP: 1058, 1723 TCP/IP: 1112, 1122, 950, 894, 793, 791, 1812 BOOTP: 951, 1542 TFTP: 1350 |
| WAN Protocols | IETF RFC 2364 PPP over AAL5 (VC multiplexing and LLC encapsulation) IETF RFC 1483 Multiprotocol Encapsulation over AAL5 IETF RFC 1577 Classical IP over ATM IETF RFC 2516 PPP over Ethernet |
| Security | PPP authentication - PAP/CHAP: 1334, 1994 Web and Telnet password |
| Management | Embedded SNMP agent, Terminal, Telnet with Web based configuration management tool Auto provisioning extensions, OAM F4 and F5 support Concise MIB: 1212, MIB-II: 1213, Traps: 1215, Bridge MIB: 1493 SNMP MIB: 1471, 1472, 1473, 1474 SNMP: 1157 |
| Software Upgrade | TFTP download into built-in flash memory Remote download (DSLAM support required) |
| Configuration | Dialing Mode: Tone Dialing/Pulse Dialing Encoding: μ -Law, A-Law |
| Physical Specifications | Dimensions (HxWxD): 2.0 x 7.0 x 5.5 in. (5.1 x 17.8 x 14.0 cm) LAN Interface: 10 BASE-T (IEEE 802.3i) Connector: RJ-45 with MDI/MDI-X switch USB Interface (Optional): USB 1.1, Connector: USB LED: Power, Ethernet: Link, Tx, Rx, Collision DSL: Sync, Tx, Rx, Margin POTS: TEL 1, TEL 2, TEL 3, TEL 4 - Off-Hook Diagnostics: local POTS diagnostics Alarm: low bandwidth Life Line: active DSL WAN Interface: RJ-11 connector Lifeline: RJ-11 connector Voice Ports: 4-RJ1 connector Service Port: serial interface for local configuration via RS-232, Connector: RJ-45 Power Requirements: 100-240 VAC, 50/60 Hz, 2 A Operating Temperature: 0° to 55°C with 1 m/sec airflow, 0° to 40°C ambient, -40° to 70°C storage Humidity Range: 5% to 95% (non-condensing) |
| Certifications | UL1950, FCC part 15 and 68, Class B for A1, cUL Interface Types, CISPR 22, Class B |



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