



Am7910/11

WORLD-CHIP® FSK MODEM

DISTINCTIVE CHARACTERISTICS

Common Capabilities

- Complete FSK Modem in 28-pin package
- 300 bps full-duplex operation
- 1200 bps half-duplex operation
- 1200 bps full-duplex on 4-wire
- Compatible with Bell 103/113/108, Bell 202, CCITT V.21, and V.23
- Available in CDIP, PDIP, and PLCC packages
- Commercial, Industrial and Extended temperature range
- No external filtering required
- All digital signal processing, digital filtering, and A/D-D/A conversion on-chip
- Includes essential RS-232/CCITT V.24 handshake signals on-chip
- Autoanswer capability

Unique Device Capabilities

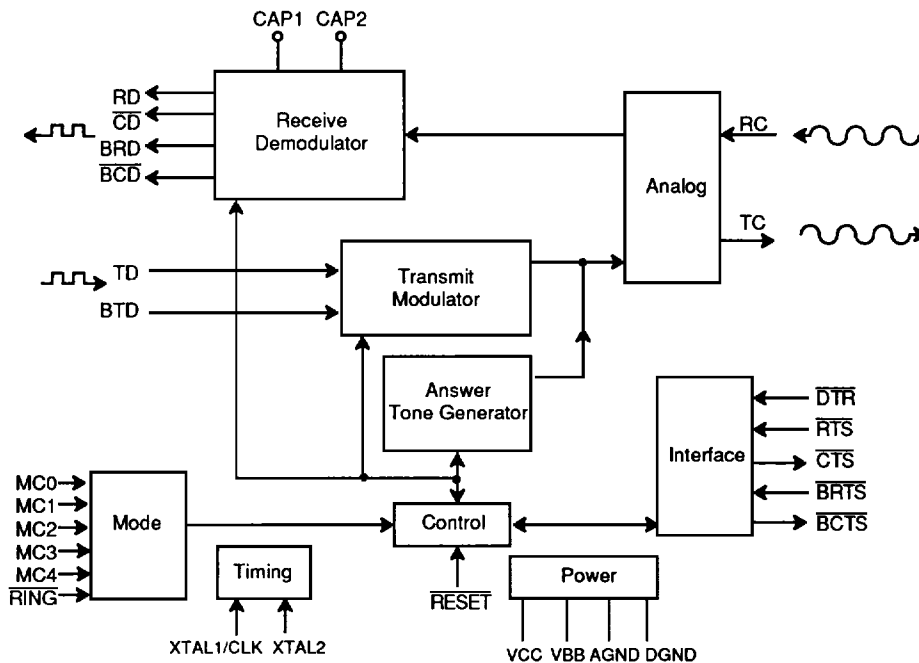
Am7910

- Dial-up network response times
- Bell 202 with 5 bps back channel
- V.23 with up to 75 bps back channel

Am7911

- Fast response time for leased-line networks
- Bell 202 with 5 bps or 150 bs back channel
- V.23 with up to 150 bps back channel

BLOCK DIAGRAM



GENERAL DESCRIPTION

Advanced Micro Devices offers a family of high-performance FSK modem chips that may be easily integrated in system designs to interface terminals and workstations to the Telephone Network. The product family consists of:

- Am7910 FSK Modem
- Am7911 FSK Modem
- Am79101 Autodial FSK Modem

Am7910 and Am7911

AMD currently offers three single-chip modems in the Frequency Shift Keying (FSK) series including the Am7910, the Am7911 and the Am79101. This family of modems includes most of the building blocks required for a complete communication system. Some of the

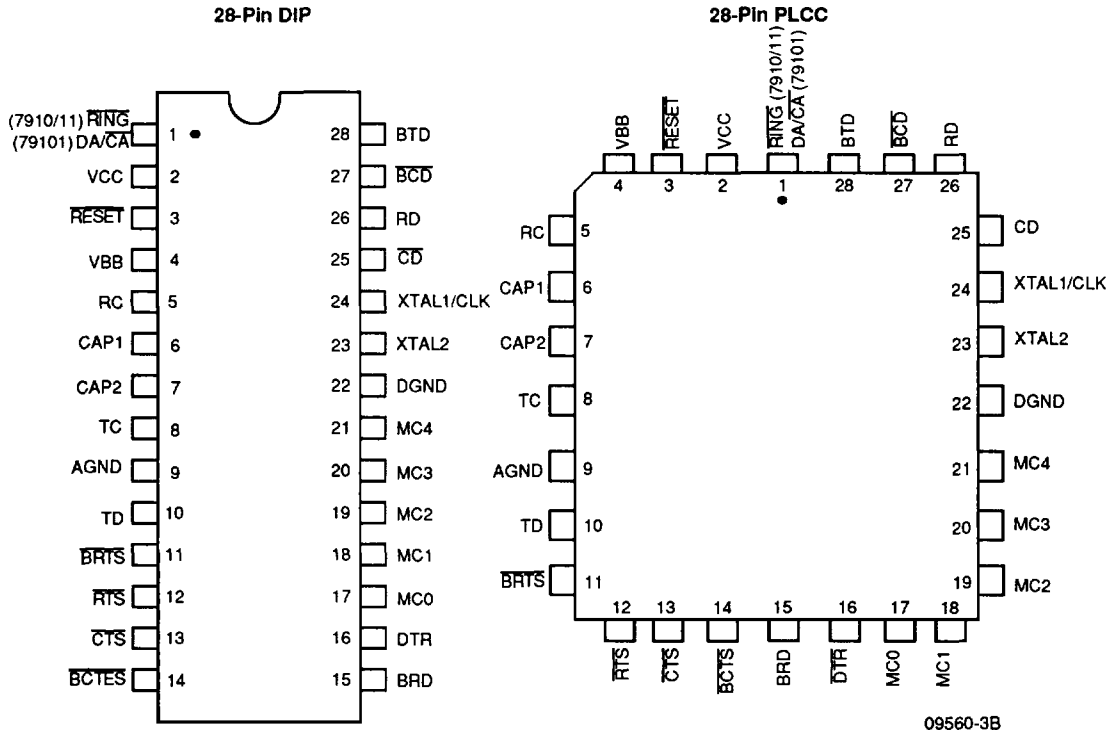
on-chip features include: analog-to-digital and digital-to-analog converters, internal crystal oscillator, and the essential RS-232/CCITT V.24 terminal control signals with TTL levels. A DAA (Data Access Arrangement) or acoustic coupler must be supplied externally to provide the Phone Line Interface.

The FSK modem chips all have the same basic structure as shown in the simplified block diagram. The Am7910 and the Am7911 differ mainly in timing parameters with the Am7911 being tailored for better performance in leased-line, multidrop applications. The Am7911 also includes an extended set of modem selection modes.

The Am79101 is described in a separate data sheet (order no. 09833).

CONNECTION DIAGRAMS

Top View



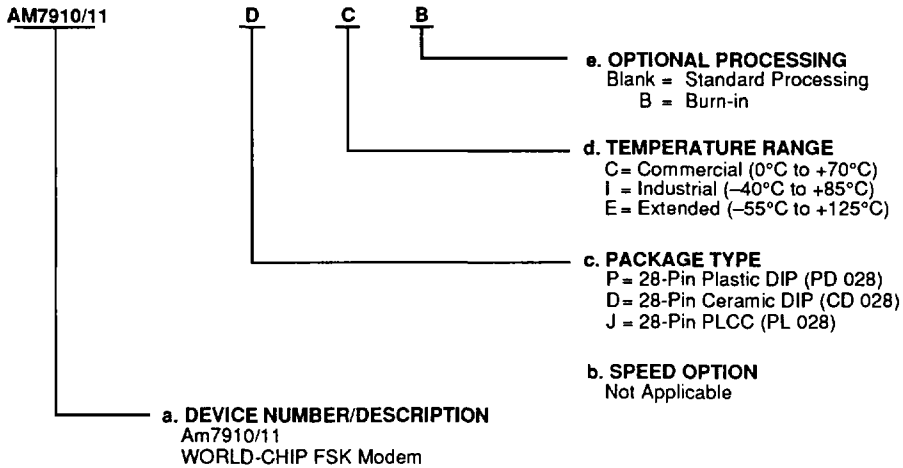
Note: Pin 1 is marked for orientation.

ORDERING INFORMATION

Standard Products

AMD standard products are available in several packages and operating ranges. The ordering number (Valid Combination) is formed by a combination of:

- a. **Device Number**
- b. **Speed Option (if applicable)**
- c. **Package Type**
- d. **Temperature Range**
- e. **Optional Processing**



Valid Combinations	
AM7910 AM7911	PC, JC, DC, DCB, DI, DIB, DE, DEB

Valid Combinations

Valid Combinations list configurations planned to be supported in volume for this device. Consult the local AMD sales office to confirm availability of specific valid combinations, to check on newly released combinations, and to obtain additional data on AMD's standard military grade products.