

## Dispatcher Call Decoder III (DCD III), 40243

2-99

### Communications

4/28/99

Safetran's Dispatcher Call Decoder III (DCD III), 40243, is a microprocessor based, dual-tone, multi-frequency decoder. It provides a two or four-wire interface that enables a remote operator to activate up to five external functions. Some of the key features of the DCD III are:



- Plug-in network and application interface cards.
- Configurable via front-panel display and mode switches, or lap-top PC.

### Hardware

The DCD III is a 3-volt assembly housed in a 1.75-inch high by 17.5-inch wide, rack-mountable enclosure that contains the Controller Board (23371) and two I/O connectors for the network (23381) and application (23374) interface modules. The 23371 board contains the master communications processor and Digital Signal Processor (DSP). The on-board Flash PROM technology makes the 23371 board completely configurable with no PROM's to change. The network and application interface modules plug into the DCD III from the rear of the unit. Programming is performed via the front-panel display and mode switches, or the nine-pin diagnostic serial port and a lap-top/PC computer.

### Network Interface Module, 23381

The network interface module provides analog circuits that use in-band DTMF signaling technology. Certain parameters pertaining to the unit address can be changed via the front-panel mode switches and display. A lap-top computer can also be utilized for unit addressing and diagnostics.

### Application Interface Module, 23374

The application interface module provides five optically coupled, open collector outputs to control remote functions.

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## SPECIFICATIONS

**Power Requirements:**

Input Voltage      9 to 36 VDC or  
                                 18 to 72 VDC

Power                      less than 10 watts

**Surge Protection:**

Transient voltage suppression diodes provided as secondary protection,  
2000-volt isolation

**Environmental:**

Temperature            -40°F to +160°F (-40°C to +71°C)

Humidity                95%, noncondensing

**Network Interface:**

RJ-11C 2W/4W point-to-point analog circuit -24 dBm to 0 dBm at 600  $\Omega$   
RJ-11C 2W Loop Start PBX (note: loop extender required for PSTN interface  
at 900  $\Omega$  with touch-tone)

**Application Interface:**

DB-15 female  
Five optically coupled open collector outputs

**Dimensions:**

17.5 inches (44.45 centimeters) wide  
1.75 inches (4.45 centimeters) high  
8 inches (20.32 centimeters) deep

**Weight:**

7.5 pounds (3.375 kilograms) approximate

## ORDERING INFORMATION

To order, please contact Safetran Communications Marketing at the Safetran Electronic  
Division: 1-800-793-7233