MX·COM, INC.

MX203

SELCALL CODEC

FEATURES:
- HSC Tone Encoding/Decoding
- On-chip General Purpose Timer
- General Purpose 4-bit Input/2-bit Output Port
- 4-bit μP I/O Data Port
- Powersave Facility
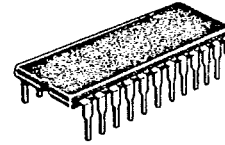- Uses Low-Cost 4 MHz Crystal

APPLICATIONS:
- Mobile and Handheld Radio ANI
- Mobile and Handheld Radio Transponding

MX203J (CDIP)
MX203P (PDIP)
24 pins

MX203LH
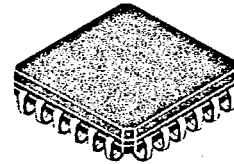**(24p PLCC)**

DESCRIPTION:

The MX203 is a single-chip "N" tone selective call encoder/decoder intended for use as a microcontroller peripheral.

The general purpose 4-bit input and 2-bit output ports are available for external connection to such functions as "PTT," "Rx SQUELCH," "Alert Beep" and "Lamp Driver." An on-chip general purpose timer is provided for such functions as Tx tone period timing. Time periods of between 10 and 120 ms (in 10 ms steps) may be programmed via the I/O bus.

The MX203 reference oscillator utilizes a low cost 4 MHz crystal or externally derived clock. The "divide by four" (1 MHz) output may be used to drive other devices such as the MX365 CTCSS Encoder/Decoder, the MX004 Voice Band Inverter, or the MX224 VSB Voice Scrambler. The device requires a single 5V power supply and utilizes chip enable/powersave facilities for reducing current consumption in Rx and Standby modes.

MX203 Internal Block Diagram

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