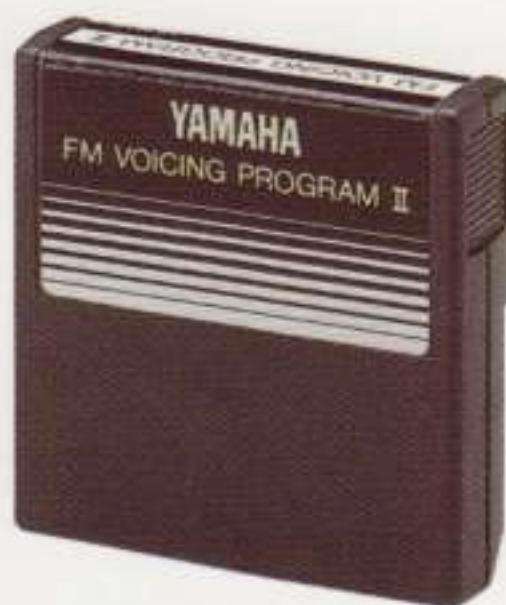# YAMAHA
CX5MII/128
MUSIC COMPUTER

MSX

CX5MII/128

A Music Computer with 46 Preset Voices, Built-In FM Tone Generator, and MIDI-Compatibility

Music Computer

For those with a musical vision, Yamaha presents the CX5MII/128. The CX5MII/128 is a powerful, complete computer with a difference: it features a built-in SFG-05 tone generator similar to those found in our DX Digital Programmable Algorithm Synthesizers. It lets you play music in any of 46 preset voices, or even create entirely new sounds. And as the CX5MII/128 is a Yamaha digital instrument, it is capable of astounding realism. Pianos, guitars, flutes, bass, organ, and a galaxy of new sounds are accessible at the touch of a button. With an optional YK-01 "mini" music keyboard or standard-size YK-10/YK-20 keyboard, the CX5MII/128 becomes a versatile synthesizer with 8-note polyphonic output and a programmable split keyboard function. And of course, it's MIDI-compatible. MIDI (Musical Instrument Digital Interface) is a language that allows MIDI-equipped synthesizers, tone generators, sequencers and rhythm programmers to communicate with each other. Simple MIDI-cable connections link the instruments to the CX5MII/128. You can compose, arrange—even be a self-contained band!

For those occasions demanding use of the CX5MII/128 as a word processing computer, its 80-character-per-line capacity ensures optimum ease and efficiency.

The Sound of FM Synthesis

The CX5MII/128 uses sophisticated digital FM (frequency modulation) synthesis to create sound. Each of the four digital sine wave generators within the SFG-05 is modulated by an envelope generator. This gives you precise control over waveform complexity, resulting in a remarkable range of level and timbral variations—from accurate acoustic tones to the limits of your imagination. And unlike other less sophisticated waveform generation methods, FM synthesis accurately reproduces the random harmonic characteristics found in acoustic instruments. Included with the CX5MII/128 is Yamaha's FM Voicing Program II software package. This sophisticated program brings a comprehensive voice parameter data display right to your monitor for truly precise voicing. The CX5MII/128, with its built-in SFG-05 tone generator, is truly a professional sounding digital synthesis computer.

SPECIFICATIONS

CPU Z80A

Memory
Main memory RAM: 128 KB (with memory mapper)
Video RAM: 16 KB
ROM: 48 KB

Video Out Specifications
Front: Alpha-numeric and graphic patterns 256 characters with 8 × 8 dot matrics
Color graphics: 16 colors with 256 × 192 resolution 32 sprites
Characters: 40/80 characters per line (80 only with Green CRT or RBG TV)
Video out: RGB, RF, Video

Music Function
8 octaves 3 notes and noise

Slots
Upper slot: 2
Side slot: 1
External slot: 1

Bundle Software
FM Sound Synthesizer Unit II
FM Voicing Program II (Plug into External slot)

Connector
Cassette interface
Video/Audio Out
Joystick interface
Printer interface
ROM cartridge slot

General Specifications
Dimensions (W × H × D): 440 × 98 × 285 mm
(17-3/10" × 3-9/10" × 11-2/5")
Weight: 3.5 kg (6 lbs. 13 oz.)

FM Sound Synthesizer Unit II
Sound generator: FM Sound Generator 4 operators 8 algorithms
Polyphony: 8 notes simultaneous
Internal voices: 46 preset
Connections: Audio output (L, R)
MIDI-IN, MIDI-OUT
Music keyboard connectors

For details please contact: