



Features

- New Integrated Line Tracker Application Provides Complete Dial-up and Standard Modem Processing in One Package
- Line Tracker Handles Dial-up Processing of Bell 103, V.22bis, V.32bis and FAX Signals
- Complete Fax Processing, Including Group 3 and V.17
- Modem Processor Handles OOK, FSK, VFT, PSK and QAM for CCITT, Bell and Motorola Equivalents
- R.101A/B, 2400/1200 bps Strapping
- Async, Bisync, HDLC, SDLC, X.25, SNA, DDCMP, IPARS Protocols
- ASCII-7, ASCII-8, EBCDIC, Baudot
- Analog and PCM E1/T1 Inputs
- PC Control Software (standard)

Description

The ICP-2020 is M/A-COM's newest Voice Grade Channel processor. With an altogether new DSP board design, the ICP-2020 can be used as a single channel processor or configured with an additional DSP (ICP-2120) to process two voice grade channels simultaneously.

The ICP-2020 performs demodulation, demultiplexing, bit stream synchronization and back-end processing for most commercially available modem and voice frequency telegraphy (VFT) signals, as well as complete Group 3 and V.17 FAX signals. In addition, the ICP-2020 can generate the modem and VFT signals that it is designed to process.

Two analog inputs are available on the ICP-2020, and M/A-COM's Dual Mode E1/T1 daughter card can be used to provide PCM Level 1 input to the ICP-2020.

The ICP-2020 comes standard with M/A-COM's Control Monitor Software for PC-based applications.

All of these new features represent the next generation in Voice Grade Channel Processing from M/A-COM's Communication Technologies Center.

Specifications

Signal Set

V.21, V.22, V.22bis, V.23, V.26A/B/bis/ter, V.27bis/ter,
V.29, V.32, V.33
Bell 103, 202
V.22bis full-duplex
V.32bis (single-sided)
Group 3 and V.17 FAX (to 14.4 kpbs)

Multiplexing Formats

R.101A/B Strapping

Bit Stream Protocols

Async, Bisync, HDLC, SDLC, X.25, SNA, DDCMP, IPARS,
MNP-4, Binary, BER

Character Sets

ASCII-7, ASCII-8, EBCDIC, Baudot

Compression Protocols

MNP-5

FAX Coding

1D, 2D and ECM

External Inputs

4 kHz analog inputs
4 kHz low-pass filtered inputs via stereo CODEC
BNC female

PCM E1/T1

3-lug Triax connector
75 or 120 Ohm selectable
CCITT G.732 or DS1 T1D3 formats

External Outputs

4 kHz analog outputs
4 kHz low-pass filtered outputs via stereo CODEC
BNC female connectors

PCM E1/T1

3-lug Triax connector
75 or 120 Ohm selectable
CCITT G.732 or DS1 T1D3 formats

Control Interface, Data Output

RS-232 Data Link Control (DLC) Interface (control and
data) 38.4 kbps
Direct Modem Output (clock and data) as well as SCP
(Standard Character Protocol) data available on sec-
ond serial port

Diagnostic Display Outputs

2 unfiltered analog outputs generally used for "X-Y"
displays.

Power Requirements

85-264 VAC 47-440Hz or 120-364 VDC
9 watts dissipation (ICP-2020)
NEMA standard polarized three-prong connector

Electromechanical Specifications

Standard Chassis

19" wide rack-mountable
2U-high
Fan-cooled
10 pounds

Trimline Chassis

EMI/RFI Ruggedized Chassis
Half-rack 1U-high
300 cubic inches (8.5" x 20.5" x 1.72")
8 pounds

Temperature Range

Operating temperature between 0 and +50° C
Storage temperature between -40 and +85° C
Cooled exclusively by convection (trimline chassis)

Specifications are subject to change without notice.

Ordering Information

ICP-2020-01 Single VGC Processor
Standard Chassis
ICP-2020-02 Single VGC Processor
Trimline Chassis

ICP-2120-01 Dual VGC Processor
Standard Chassis
ICP-2120-02 Dual VGC Processor
Trimline Chassis

ICP Control Monitor Included with ICP-2020 orders

Contact M/A-COM Communication Technologies Center
for further information on ordering and delivery.

Warranty

This product is warranted for one year, except for damage
caused by accident or misuse, provided it is returned for
repair to the factory.



COMMUNICATION TECHNOLOGIES CENTER
1011 PAWTUCKET BOULEVARD: P.O. BOX 3295
LOWELL, MA 01853-3295
TEL: (508) 442-5000 FAX: (508) 442-4988