M/A-COM
an AMP company

Features

- OOK, FSK, VFT, PSK, QAM Modems

- Complete Fax processing, including Group 3 and V.17

- R.101A/B, 2400/1200 bps Strapping

- Async, Bisync, HDLC, SDLC, X.25, SNA, DDCMP, IPARS Protocols

- ASCII-7, ASCII-8, EBCDIC, Baudot Coding

- Analog and PCM E1/T1 Inputs

- PC-based Control Software (standard)

Description

The ICP-2010 is M/A-COM's newest exportable Voice Grade Channel processor. With an altogether new DSP board design, the ICP-2010 can be used as a single channel processor or configured with one additional DSP (ICP-2110) to process two voice grade channels simultaneously.

The ICP-2010 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-2010 can generate the modem and VFT signals that it is designed to process.

Two analog inputs are available on the ICP-2010, and M/A-COM's Dual Mode E1/T1 daughter card is used to provide PCM Level 1 input to the ICP-2010.

The ICP-2010 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
Bell 103, 113, 201, 202, 212, 214
V.22bis full-duplex
Group 3 and V.17 FAX (to 9.6 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 input
> 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 input
> 4 kHz low-pass filtered outputs via stereo CODEC
> BNC female

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 second serial port

Diagnostic Display Outputs
2 analog outputs generally used for "X-Y" displays.

Power Requirements
85-264 VAC 47-440Hz or 120-364 VDC
9 watts dissipation (ICP-2010)
NEMA standard polarized three-prong connector

Electromechanical Specifications
Standard Chassis
19" wide rack-mountable
2U-high
Fan-cooled
10 pounds

Trimline Chassis
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-2010-01 Single VGC Processor
> Standard Chassis
ICP-2010-02 Single VGC Processor
> Trimline Chassis

ICP-2110-01 Dual VGC Processor
> Standard Chassis
ICP-2110-02 Dual VGC Processor
> Trimline Chassis

ICP Control Monitor Included with ICP-2010 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.

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V2.00