

New Products

Audio Processor

F-Mu Systems, Inc., in partnership with Creative Technology, has unveiled the **EMU10K1 single chip audio processor**. The product features a 64-voice hardware wave-table synthesizer with a patented 8-point interpolation engine and sophisticated effects section. The EMU10K1 is capable of simultaneously processing many sounds and effects, in realtime, without using the host CPU. It can receive a variety of audio sources including MIDI, WAV, and CD audio for editing, composing, mixing, and high-quality sample rate conversion to 48 KHz. Other features of the audio processor include PCI bus mastering with patented DynaRam technology; and over 1000 MIPS of audio processing power for effects and environmental audio.

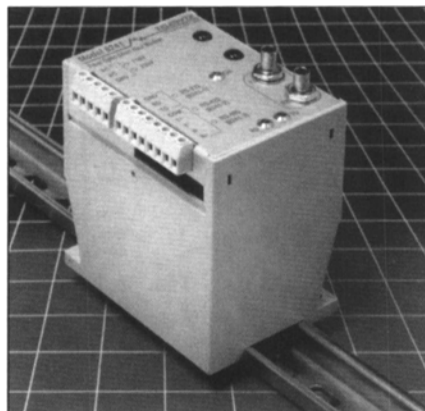
Camera Accessories

Telemetrics, Inc., has introduced the **PT-LP serially controlled camera pan/tilt mechanism**. The unit incorporates a serial control receiver compatible with the company's line of serial control panels to facilitate remote studio operation of cameras. The product's variable speed operation is provided by heavy-duty cross roller bearings and Swiss motors with isolation mounts. Additional features include direct connection and interface to all lens functions; feedback for short storage and recall; adjustable end stops; and a threaded base for easy tripod and ceiling mounts. The PT-LP can be used for several applications in the broadcast, teleconferencing, and instructional television markets due to the wide range of pan and tilt speeds available.

Encoders

ASPI has announced the addition of the **A1034, A1035, A1036, and A1037 MPEG audio encoder chipsets** to its AudioOasis product line. These products provide additional flexibility when designing MPEG-based audio systems.

The A1034 accepts input audio and produces either a packetized elementary stream or an elementary stream. The chipset is compatible with ISO/IEC 11172-3 and 13818-3 standards. The A1035 uses an improved psychoacoustic model that provides better quality audio at lower bit rates. The A1036 encodes two stereo channel MPEG bit streams. The chipset accepts two serial inputs and will produce one serial output carrying both MPEG streams in alternating packets.



The Telebyte Model 8241 fiber-optic modem.

A full-duplex MPEG audio encoding system, the A1037, enables users to produce audio systems with equal audio quality in each transmitted direction. This chipset can be useful in the broadcast arena for any radio studio to transmitter link (STL) application.

Fiber Optic System

The MegaLink **1360 digital fiber optic system**, from Artel Video Systems, transports serial digital component video at the DJ tape format speed of 270 Mbits/sec, 360 Mbits/sec full bandwidth standard-definition television (SDTV), or mezzanine level HDTV. The 1360 supports single channel operation and through the use of dense wave division multiplexing (DWDM), multichannel operation. The system is available in three basic configurations: transmitter, receiver, and transceiver. Applications include studio-to-transmitter links, transmitter-to-studio links, interfacility interconnections, and metropolitan switched digital video networks.

Generators

Tektronix, Inc., has introduced the **AWG 500 Series of arbitrary waveform generators**. The generators simulate signal degradation such as jitter and fading, and are capable of producing truly random white noise. In addition, engineers can simulate jitter with up to two nanoseconds of timing resolution. The 500 Series also offers a wide variety of editing features including a graphical editor, several digital and analog filters, and a script editor. The script editor creates polynomial equations, while an intuitive programming language is included for increased flexibility.



The Telemetrics PT-LP pan/tilt mechanism.

Modem

Telebyte Technology, Inc., has released the **Model 8241, point-to-point fiber-optic modem**. The product's fiber-optic capability protects both the data and the hardware from the effects of EMI/RFI, lightning/surges, and ground loops that are found in many commercial environments. The fiber transmitter port provides a 15-dB power budget for operation over distances of 4 km. The 8241 also provides for full-duplex asynchronous communications at data rates up to 64 kbytes/sec, and is housed in a DIN Rail case allowing easy mounting on any 35mm rail. The modem is available with any one of three different peripheral electronic interfaces. They include the Model 8241-1 for RS-232, Model 8241-2 for RS-422, and Model 824-3 for RS-485.

Routers

Artel Video Systems, Inc., has introduced the **Utah 1500, a full-bandwidth high-definition router** that conforms to the SMPTE 292M standard. (1.5 Gbits/sec data rate). The modular system occupies four rack units and can be easily expanded in increments of four coaxial input/outputs to a maximum size of 32 x 32. Features of the router include internal relocking, redundant power, input cable equalizing to 100 m, and increased flexibility with optional fiber input/output modules.

Artel has also announced the availability of the Utah 200 router which offers input/output matrix sizes from 16 x 16 to 32 x 32, and has the ability to mix audio, video, digital, and analog signals in a single two rack unit frame.

The **MX64 digital routing switcher** from MetaWave Ltd., is designed for use

in SDI installations where flexibility and expandability are expected. The routing switcher is housed in an 11-U chassis that will accommodate up to a 64 x 64 serial digital router along with redundant control cards and power supplies. The MX64 starts as small as 16 x 16 and can be expanded in blocks of 16 inputs or outputs. Typical applications of the MX64 will be found in broadcast facilities, satellite uplink facilities, telecom applications, and post-production houses.

The **MXA256 digital audio routing switcher**, also from MetaWave, Ltd., is designed for use in large AES/EBU installations. The 256 supports synchronous and asynchronous digital audio signals as well as analog audio in the same system. Available in sizes from 32 x 32 to beyond 256 x 256, this router is expandable in units of 32 inputs or outputs. Available input/output upgrades include re-framer and rate converter input options, an analog audio option and output channel swapping, and summing and mute options.

Racks

The **MW12 desktop video rack** from Metawave, Ltd., holds two MW series signal processing boards and is designed for use in desktop video and other applications where space is restricted. As an alternative to standard 19-in. rackmount units, the MW12 provides a convenient and low-cost means of employing MW audio and video converters.

For further information regarding the new products and developments listed in this section, contact the companies directly at the addresses listed below:

Artel Video Systems Inc., 237 Cedar Hill St., Marlborough, MA 01752, tel: (508) 303-8200; fax: (508) 303-8197; Internet: <http://www.artel.com>.

ASPI Digital, 1375 Peachtree St., NE, Ste. 690, Atlanta, GA 30309-3115, tel: (404) 892-3200; fax: (404) 892-2512.

E-Mu Systems, Inc., 1600 Green Hills Rd., Ste. 101, P.O. Box 660015, Scotts Valley, CA 95067-0015, tel: (408) 438-1921; fax: (408) 438-8612; Internet: <http://www.emu.com>.

Metawave Ltd., 11 Kingsclere Pk., Kingsclere, Hampshire, RG20 4SW U.K., tel: +44 1635 299000, fax: +44 1635 299299; e-mail: info@metawave.co.uk; Internet: <http://www.metawave.co.uk>.

Tektronix, Inc., 14180 S.W. Karl Braun Dr., P.O. Box 500, Beaverton, OR 97077-0001, tel: (800) 835-9433.

Telebyte Technology, Inc., 270 Pulaski Rd., Greenlawn, NY 11740-1616, tel: (516) 423-3232; fax: (516) 385-8184; e-mail: sales@telebyteusa.com; Internet: <http://www.telebyteusa.com>.

Telemetry, Inc., 6 Leighton Pl., Mahwah, NJ 07430, tel: (201) 848-9818; fax: (201) 848-9819.

Errata

"Hope Reports" by Thomas W. Hope, Progress Report, January 1998, pp. 28-29.

The Editorial Dept. inadvertently printed the Time Line (p. 28) with several entries in the wrong column. A corrected version of the Time Line appears below. Please note that Mr. Hope's middle initial is "W" and not "J."

	<i>Software</i>	<i>Hardware</i>
2000		Digital TV Digital videodisc
1990	Internet Multimedia III CD-ROM	LCD projector LCD panel Video wall
1980	Computer graphics 1/2" videotape Multimedia II	Videodisc player Personal computer Videocassette recorder
1970	Audio cassette 1" videotape Multimedia I	CRT video projector Light valve projector Carousel slide projector
1960	3/4" helical scan videotape 2" quad videotape color neg/pos film	Videotape recorder Color TV
1950		Overhead projector
1940	Kodachrome film	2x2" slide projector
1930	Sound on film	16mm sound projector 35mm sound projector Television
1920	16mm B & W film	16mm projector Filmstrip projector
1910		
1900	35mm B & W film	35mm projector
1890		