

INTERNATIONAL PROFESSIONAL USER

USD PRICE LIST

Effective July 15, 2006



INTERNATIONAL PROFESSIONAL USER PRICE LIST (USD) EFFECTIVE JULY 15, 2006

TABLE OF CONTENTS

TERMS & CONDITIONS OF SALE / LIMITED WARRANTY

QUICK REFERENCE PRICING INDEX

ORBAN FM PROCESSING
OPTIMOD-FM 8500HD DIGITALOPTIMOD-FM 8500 DIGITAL
HD UPGRADE FOR OPTIMOD-FM 8500 DIGITAL.
OPTIMOD-FM 8300 DIGITAL
OPTIMOD-FM 5300 DIGITAL
OPTIMOD-FM 2300 DIGITAL
ORBAN AM PROCESSING
OPTIMOD-AM 9400
MRF023/ACCO23 AM MONITOR ROLL-OFF FILTER
ORBAN TV PROCESSING OPTIMOD-TV 8382 DIGITAL
ORBAN HD PROCESSING
OPTIMOD-PC 1100
1100/CBLXLR (PRE-WIRED CABLE, TERMINATED XLR CONNECTORS)
1100/CBL (PRE-WIRED CABLE, UNTERMINATED)
OPTIMOD-DAB 6300
AUDIO CODEC PRODUCTS
OPTICODEC 7600
OC7400/IMD4 (PROVIDES TWO ISDN INTERFACES FOR 7400 & 7600)
OPTIMOD-DAB 6300 (SEE HD PROCESSING PAGE 3 FOR DETAILS)
ORBAN STUDIO PROCESSING OPTIMOD-DAB 6300 (SEE HD PROCESSING PAGE 3 FOR DETAILS)
STREAMING MEDIA ENCODERS FOR PC
OPTICODEC-PC 1010 LE
UPGRADE 1010 LE VERSION 2
OPTICODEC-PC 1010 SE
UPGRADE 1010 LE TO 1010 SE
OPTICODEC-PC 1010 PE
UPGRADE 1010 LE TO 1010 PE
UPGRADE 1010 PE VERSION 2
OPTICODEC-PC 1010 PE / OPTIMOD-PC 1100 PACKAGE
OPTICODEC-PC 1010 PE / COMPUTER PACKAGE
STREAMING FILE ENCODERS FOR PC
OPTICODEC-PC 1020 FE (PERSONAL)
OPTICODEC-PC 1020 FE (PROFESSIONAL)
OPTICODEC-PC 1020 FE (ENTERPRISE)
OPTICODEC-PC 1020 FE / OPTIMOD-PC 1100 PACKAGE
CRL FM / AM / TV PROCESSING AMIGO FM COMPLETE ANALOG PROCESSOR
AMIGO SCA
AMIGO AM COMPLETE ANALOG PROCESSOR
TVS3001 STEREO TRI-BAND AUDIO GAIN CONTROLLER
TVS3003 MTS GENERATOR / LIMITER
TVS3010 GAIN CONTROLLER / AUDIO LIMITER
TVS3004 PRO GENERATOR
TVS3006 SAP AUDIO PROCESSING SYSTEM
AMIGO STUDIO S



ORBAN / CRL TERMS & CONDITIONS OF SALE & LIMITED WARRANTY

THESE TERMS AND CONDITIONS OF SALE AND LIMITED WARRANTY OF CIRCUIT RESEARCH LABS, INC. AND ITS SUBSIDIARIES (HEREINAFTER REFERRED TO AS "ORBAN / CRL") SHALL BE GOVERNED BY AND CONSTRUED ACCORDING TO THE INTERNAL LAWS OF THE STATE OF ARIZONA AND THE UNITED STATES OF AMERICA. THE RIGHTS AND OBLIGATIONS OF ALL PARTIES AND ALL PERSONS OR ENTITIES CLAIMING HEREUNDER SHALL NOT BE GOVERNED BY THE PROVISIONS OF THE 1980 U.N. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF PRODUCTS. ANY ACTION OR PROCEEDING ARISING HEREUNDER MAY BE BROUGHT IN THE COURTS OF THE STATE OF ARIZONA OR THE U.S. DISTRICT COURT FOR THE DISTRICT OF ARIZONA.

- 1. Conditions of Sale: The terms and conditions of sale of the goods (product) are as indicated below unless otherwise specifically stated by ORBAN / CRL in writing.
- 2. Terms of Shipment: All shipments are made FOB factory, (for domestic sales), and Ex Works factory (for international sales) unless otherwise specifically stated by ORBAN / CRL in writing. All shipments are made in the manner determined by ORBAN / CRL, unless otherwise requested by BUYER, in which case resultant additional charges and expenses shall be paid by BUYER unless there is prior agreement otherwise in writing by ORBAN / CRL. The BUYER is responsible for payment of any U.S. and other customs, duty and similar or related charges.
- 3. **Prices:** Unless otherwise stated, all prices and amounts are payable in U.S. Dollars. Prices are subject to adjustment prior to the time of delivery, should be delayed by the BUYER. Prices do not include any sales, use, excise, or similar taxes. Any such tax applicable to products covered by ORBAN / CRL's quotation, bid, proposal or resultant Purchase Order or Sales Order will be billed to and paid by the BUYER as separate and additional items on the invoice.
- 4. CHANGES IN DESIGN: ORBAN / CRL reserves the right to modify or change the products in whole or in part, at any time prior to the delivery thereof, in order to include therein electrical or mechanical refinements deemed appropriate by ORBAN / CRL, but without incurring any liability to modify or change any product previously delivered, or to supply new products in accordance with earlier specifications.
- 5. Purchase Orders and Other Documents of Purchaser: Changes of these Terms and Conditions of Sale and Limited Warranty initiated by the BUYER, such as on Purchase Orders, shall not be considered effective until mutual agreement has been reached in writing between the BUYER and ORBAN / CRL concerning the effect of said changes on price, delivery, or other times and conditions of the Purchase Order of other document.
- 6. Installations, etc.: The prices quoted by ORBAN / CRL, unless otherwise specifically stated by ORBAN / CRL in writing, do not include installation. The products shall be installed by the BUYER, and the BUYER assumes all responsibility for installation and operation of the product as well as obtaining all permits, licenses, and certificates required by any regulatory agency or any other body for the installation and use of the products. The BUYER agrees to and shall indemnify and hold ORBAN / CRL harmless on account of any liability, loss, cost and expense arising from or connected with installation or operation of the products, and any failure to obtain any such permit, license or certificate.
- 7. **Terms of Payment:** Terms are from date of invoice. Specific terms are indicated on the front of ORBAN / CRL's invoice including discount, if any, allowed for earlier payment. BUYER shall pay ORBAN / CRL an interest charge up to and including 1.5% per month from date of shipment until paid in full, on all balances past due for more than thirty days.
- 8. **Delivery:** All shipments hereunder are subject to the U.S. Export Administration Act, as amended, the regulations thereunder and all other U.S. laws concerning exports. Damaged and risk of loss of any kind or nature after delivery by ORBAN / CRL to the carrier shall be at the BUYER'S sole risk and ORBAN / CRL shall not be obligated to procure or furnish insurance covering any shipment. Every reasonable effort will be made by ORBAN / CRL to effect delivery within the time specified on ORBAN / CRL's Quotation or Purchase Order acknowledges pursuant to the BUYER's request for Quotation or Purchase Order acknowledge, provided, however, that ORBAN / CRL shall not be liable for any delay or default due to causes beyond its control or due to the BUYER's fault or negligence. Buyer shall be liable and pay for any additional transportation charges incurred because of BUYER's request to use expedited means of shipment.
- Packaging: All products shall be shipped in standard commercial packaging, unless otherwise expressly provided on BUYER's Purchase Order. The cost of
 special packaging as may be required, shall be charged and invoiced separately and shall be paid by BUYER.
- 10. LIMITED WARRANTY: ORBAN / CRL'S LIMITED WARRANTY IS INCLUDED WITH EACH PRODUCT DELIVERED, AND EXCEPT AS THEREIN PROVED, NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO ANY PRODUCT SOLD HEREUNDER.
- 11. **WARRANTY PERIOD:** Orban / CRL warrants that the Products delivered hereunder shall be free from defects in material and workmanship under normal use and service for a period of two (2) years from the date of delivery of the Products to the Product customer.
- 12. **RETURNS:** No product may be returned for credit without a written return authorization from ORBAN / CRL. Returned goods will be assessed a 15% restocking charge, plus the actual costs, if any, for refurbishing or packaging as ORBAN / CRL deems necessary. ORBAN / CRL assumes no responsibility for unauthorized returns. Authorized returns shall be shipped ORBAN / CRL's San Leandro, California factory delivered C.I.F. (for domestic sales) or Delivered Duty Paid (for international sales). Any U.S. and other customs duty and similar or related charges for returned products shall be BUYER's responsibility. Damage and risk of loss of any kind or nature respecting returns, shall be at the BUYER's sole risk.
- 13. LIMITATIONS OF DAMAGES: IN NO EVENT SHALL ORBAN / CRL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, DIRECT EXEMPLARY, SPECIAL OR SIMILAR DAMAGES TO PERSON OR PROPERTY, NOR SHALL ORBAN / CRL'S LIABILITY IN ANY EVENT EXCEED THE PRICE OF THE SPECIFIC PRODUCT WHICH GAVE RISE TO THE CLAIM.
- 14. ERRORS: ORBAN / CRL reserves the right to correct clerical and typographical errors in any quotations, purchase orders, invoices, and product publications.



INTERNATIONAL PROFESSIONAL USER PRICE LIST (USD) EFFECTIVE JULY 15, 2006

ORBAN FM PROCESSING	STREAMING MEDIA ENCODERS FOR PC
OPTIMOD-FM 8500HD DIGITAL\$13,900	OPTICODEC-PC 1010 LE
OPTIMOD-FM 8500 DIGITAL\$10,900	UPGRADE 1010 LE VERSION 2
HD UPGRADE FOR OPTIMOD-FM 8500 DIGITAL\$ 3,000	OPTICODEC-PC 1010 SE \$ 199
OPTIMOD-FM 8300 DIGITAL\$ 7,595	UPGRADE 1010 LE TO 1010 SE \$ 149
OPTIMOD-FM 5300 DIGITAL\$ 6,490	OPTICODEC-PC 1010 PE\$ 495
OPTIMOD-FM 2300 DIGITAL\$ 4,950	UPGRADE 1010 LE TO 1010 PE\$ 395
	UPGRADE 1010 PE VERSION 2 \$ FREE
ORBAN AM PROCESSING	OPTICODEC-PC 1010 PE / OPTIMOD-PC 1100 PACKAGE \$ 2,195
OPTIMOD-AM 9400 \$ 7,990	OPTICODEC-PC 1010 PE / COMPUTER PACKAGE\$ 3,990
MRF023/ACC023 AM MONITOR ROLL-OFF FILTER\$ 250	
	STREAMING FILE ENCODERS FOR PC
ORBAN TV PROCESSING	OPTICODEC-PC 1020 FE (PERSONAL) \$ 99
OPTIMOD-TV 8382 DIGITAL\$ 8,490	OPTICODEC-PC 1020 FE (PROFESSIONAL)\$ 199
	OPTICODEC-PC 1020 FE (ENTERPRISE)\$ 999
ORBAN HD PROCESSING	OPTICODEC-PC 1020 FE / OPTIMOD-PC 1100 PACKAGE \$ 2,690
OPTIMOD-PC 1100\$ 1,790	
1100/CBLXLR (PRE-WIRED CABLE, TERMINATED XLR CONNECTORS) \$ 110	CRL FM / AM / TV PROCESSING
1100/CBL (PRE-WIRED CABLE, UNTERMINATED)\$	AMIGO FM COMPLETE ANALOG PROCESSOR\$ 2,995
OPTIMOD-DAB 6300\$ 5,490	AMIGO SCA\$ 2,395
	AMIGO AM COMPLETE ANALOG PROCESSOR\$ 2,995
AUDIO CODEC PRODUCTS	TVS3001 STEREO TRI-BAND AUDIO GAIN CONTROLLER \$ 4,995
OPTICODEC 7600\$ 4,990	TVS3003 MTS GENERATOR / LIMITER \$ 8,995
OC7400/IMD4 (PROVIDES TWO ISDN INTERFACES FOR 7400 & 7600)\$ 595	TVS3010 GAIN CONTROLLER / AUDIO LIMITER\$ 6,795
OPTIMOD-DAB 6300\$ 5,490	TVS3004 PRO GENERATOR\$ 2,495
ORBAN STUDIO PROCESSING	TVS3006 SAP AUDIO PROCESSING SYSTEM\$ 6,495
OPTIMOD-DAB 6300\$ 5,490	AMIGO STUDIO S\$ 2,595
OF HIM با کارنجانی کی کارنجانی کی کارنجانی کار	AMIGO TIMER\$ 895

ORBAN FM PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
8500	OPTIMOD-FM 8500 / HD DIGITAL	\$13,900

The 8500 builds on the proven, competitive sound of the 8400 version 3 while adding features that make it the ideal choice for FM stations simultaneously transmitting iBiquity's HD Radio®, Eureka 147, or a netcast (where it works particularly well with Orban's aacPlus® Opticodec-PC® With double the DSP power of the 8400, the DSP not only supports the new features but also provides comfortable headroom for future DSP improvements. Features include 20 kHz bandwidth on HD processing channel, window-gated dual-band AGC, stereo enhancement, parametric EQ, large color LCD, advanced processing controls and an Orban-exclusive baseband processor providing all the advantages of composite clipping without the usual degradation of stereo or RDS/RBDS coverage. All processing features are included—no extra-cost processing options are necessary. Featuring versatile five-band and two-band processing for both analog transmission and digital radio, the 8500 provides the industry's most consistent sound, track-to-track and source-to-source. Digital I/O included (2). Sample rates automatically selected for AES/EBU input and digital sync input: 32, 44.1 and 48 kHz. Inputs: AES/EBU, digital sync and electronically balanced stereo analog (XLR). Two SCA inputs (BNC). Output sample rates selected in software: 32, 44.1, 48, 88.1 and 96 kHz. Outputs: AES/EBU (2), electronically balanced and floating stereo analog (XLR). Two stere encoder composite outputs (BNC). Remote control interface (DB25), two RS-232 interfaces (DB9). Pre-emphasis 50μs or 75μs. 3U. 41 lb/18.6 kg. (H RadioTM is a registered trademark of iBiquity, Inc.).

8500FM OPTIMOD-FM 8500 DIGITAL \$10,900

This cost effective version of the award-winning Optimod-FM 8500 / HD Digital gives you everything but digital radio processing, which you can add at any time to upgrade to full Optimod-FM 8500 / HD functionality. Optimod-FM 8500 Digital processors offer double the sample rate and double the processessing power of any previous Optimod, making them the most advanced Optimod-FM ever.

8500/FM/UPG	OPTIMOD-FM 8500 DIGITAL (HD UPGRADE OPTION)	\$3,000

The HD upgrade option can be field-installed at any time to upgrade to full Optimod-FM 8500 / HD functionality

8300 **OPTIMOD-FM 8300 DIGITAL** \$7,595

A mid-priced FM processor with many top-of-the-line Optimod 8400-features, including digital radio/netcast processing, window-gated dual-band AGC, stereo enhancement, parametric EQ, "intelligent" look-ahead distortion control, and an ergonomic front panel with simultaneous visibility of processing adjustments and G/R meters. Includes optimum-latency multi-band and two-band processing, plus ultra-low latency (5 ms) multiband processing. Pre-emphasis 50µs or 75µs. Digital I/O included. Inputs: AES/EBU and electronically balanced stereo analog (XLR). Sample rates automatically selected for AES/EBU input: 32, 44.1 48, 88.1, and 96 kHz. Two SCA inputs (BNC). Output sample rates selected in software: 32, 44.1, 48, 88.1, and 96 kHz. Outputs: AES/EBU, electronically balanced and floating stereo analog (XLR). Two stereo encoder composite outputs (BNC). Remote control interface (DB25), RS-232 interface (DB9), 100 Mb/sec Ethernet interface (RJ45). Included PC Remote software runs on Windows® 2000 and XP. 2U. 19 lbs/8.7kg.

ORBAN FM PROCESSING (Cont.)

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
5300	OPTIMOD-FM 5300 DIGITAL	\$6,490

The Optimod-FM 5300 puts coveted five-band and two-band Optimod processing into a single rack unit package and brings it to you at the most affordable price ever. The 5300 features three processing structures: Optimum Five-Band (or "Multiband"; 15 ms delay) for a consistent, "processed" sound, free from undesirable side effects, Ultra-Low-Latency Five-Band (5 ms delay) for environments where talent monitors live off-air and they object to the delay of Optimum Five-Band, and Two-Band (19 or 23 ms delay) for a transparent sound that preserves the frequency balance of the original program material. Other top-of-the-line features include: window-gated dual-band AGC, stereo enhancement, parametric EQ, "intelligent" look-ahead distortion control, and an ergonomic front panel with simultaneous visibility of processing adjustments and G/R meters. Pre-emphasis 50µs or 75µs. Digital I/O included. Inputs: AES/EBU and electronically balanced stereo analog (XLR). Sample rates automatically selected for AES/EBU input: 32, 44.1 48, 88.1, and 96 kHz. Two SCA inputs (BNC). Output sample rates selected in software: 32, 44.1, 48, 88.1, and 96 kHz. Outputs: AES/EBU, electronically balanced and floating stereo analog (XLR). Two stereo encoder composite outputs (BNC). Remote control interface (DB25), RS-232 interface (DB9), 100 Mb/sec Ethernet interface (RJ45). Included PC Remote software runs on Windows® 2000 and XP. 1U. 19 lbs/8.7kg.

2300 OPTIMOD-FM 2300 DIGITAL \$4,950

Complete audio processing for FM stations with high aspirations and modest budgets. Includes window-gated dual-band AGC, stereo enhancement, parametric EQ, digital stereo encoder with patented "Half-Cosine Interpolation" composite limiter, and an ergonomic front panel with simultaneous visibility of processing adjustments and G/R meters. V2 software allows unit to be used as a stand-alone audio processor or premium-quality stereo encoder with overshoot limiter, composite limiter, and ITU BS412 MPX power controller. Includes protection, two-band purist and two-band normal processing. Pre-emphasis 50µs or 75µs. Digital I/O included. Inputs: AES/EBU and electronically balanced stereo analog (XLR). Sample rates automatically selected for AES/EBU input: 32, 44.1 48, 88.1, and 96 kHz. Two SCA inputs (BNC). Output sample rates selected in software: 32, 44.1, 48, 88.1, and 96 kHz. Outputs: AES/EBU, electronically balanced and floating stereo analog (XLR). Two stereo encoder composite outputs (BNC). Remote control interface (DB25), RS-232 interface (DB9), 100 Mb/sec Ethernet interface (RJ45). Included PC Remote software runs on Windows® 2000 and XP. 1U. 19 lbs/8.7kg.

ORBAN AM PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
9400	NEW! OPTIMOD-AM 9400 DIGITAL	\$7,990

Combined AM analog and digital radio HD-AM / netcast processing. Analog AM and digital radio processors are independent except for common AGC and stereo enhancer. Both processing channels are stereo. Analog AM supports C-QUAM ®. Analog bandwidth adjustable 4.5 to 9.5 kHz (NRSC). Digital bandwidth: 15 kHz. Inputs include one analog stereo pair and one AES3 digital. Outputs include two analog stereo pairs and two AES3 digital. Each output's level and source feed can be set independently. Sources include the AM processed signal, the digital radio processed signal, or low-delay monitor signal. Digital I/O supports 32, 44.1, 48, 88.2, and 96 kHz sample rates. Remote control via Ethernet, RS232 serial, and GPI contact closure. Included PC Remote software runs on Windows ® 2000 and XP. Clock-based automation with automatic Internet time sync is built in. 19 lbs/8.7kg.

MRF023/ACC023 AM MONITOR ROLL-OFF FILTER \$250

Passive filter that simulates the high-frequency roll-off in AM receivers. Floating input and output (barrier strip). 1 lb/0.5kg.

ORBAN TV PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
8382	OPTIMOD-TV 8382 DIGITAL	\$8,490

Orban's programmable television audio processor for stereo, dual mono (dual language) or single-channel mono. DSP audio processing, fully digital control, 5-band processing, 2-band processing (with CBS Loudness Controller), and Protect processing. Pre-emphasis 50µs or 75µs. Digital I/O included. Inputs: AES/EBU and electronically balanced stereo analog (XLR). Sample rates automatically selected for AES/EBU input: 32, 44.1, 48, 88.1, and 96 kHz. Output sample rates selected in software: 32, 44.1, 48, 88.1, and 96 kHz. Outputs: AES/EBU, electronically balanced and floating stereo analog (XLR). Remote control interface (DB25), RS-232 interface (DB9), 10 Mb/sec Ethernet interface (RJ45). Included PC Remote software runs on Windows® 2000 and XP. 2U. 19 lbs/8.7kg.

ORBAN HD PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
1100	OPTIMOD-PC 1100 V2	\$1,790

Version 2 is a major upgrade of OPTIMOD-PC that completely replaces version 1 DSP code. Version 2 software brings the basic sound texture of Orban's 8500HD processing to OPTIMOD-PC while retaining V1's phase-linear crossovers to maximize transparency in production and mastering applications. Compared to V1, V2 adds dual-mode stereo enhancement and more versatile equalization, plus Orban's latest low-IM look-ahead limiting technology and dual-band window-gated AGC. V2's AGC matches the sound of the AGC in Orban's 2300, 5300, 1100, 8400, 8500, and 9400, so it is a perfect studio AGC for these products.

V2 features Orban's new PreCode™ technology. There are two new "WMA" factory presets tuned specifically for low bitrate codecs.
The OPTIMOD-PC control application now incorporates many more controls and has a multi-page tabbed user interface for preset tuning. A new API provides complete remote administration over TCP/IP. The OPTIMOD-PC Service application hosts a TCP/IP terminal server to allow external control of the OPTIMOD-PC cards from either a Telnet/SSH client or a custom third party application. All OPTIMOD-PC Mixer and System Controls are accessible and all commands are simple text strings. You can adjust and monitor levels, tweak the processor's sound, save and recall presets, and more. Password security is provided.

1100CBLXLR	Prewired Cable Option for 1100 I/0 interface (terminated)	\$110
6 feet long, terminate	d in XLR connectors.	
1100CBL	Prewired Cable Option for 1100 I/0 interface (unterminated)	\$89
6 feet long, unterminated.		
6300	NEW! OPTIMOD-DAB 6300	\$5,490

The NEW! OPTIMOD-DAB 6300 is a high-quality, multipurpose stereo audio processor for digital radio, digital television,netcasts, STL protection, audio production, and digital mastering. With 20 kHz audio bandwidth and 48 kHz internal sample rate, the 6300 is Orban's next generation to the popular OPTIMOD-DAB 6200 audio processor, while offering improved processing algorithms and more flexibility. The 6300 contains a stereo enhancer, AGC, equalizer, phase-linear multiband compressor/limiter with either two or five bands, and two independent stereo look-ahead peak limiters. Peak limiting can be "flat" or preemphasis-aware at either 50 or 75 microseconds, allowing the 6300 to protect preemphasized analog STLs. For video applications, broadcasters can activate the 6300's included CBS Loudness Controller™ to prevent audience irritation and tune-outs caused by loud commercials. The 6300 incorporates Orban's new PreCode ™ technology, which pre-processes audio to minimize audible artifacts in low bitrate codecs such as the iBiquity HDC codec used in HD Radio™. Several of the 6300's presets exploit this technology to provide "plug and play" processing at low bit rates.

ORBAN AUDIO CODECS

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
OC7600	NEW! OPTICODEC 7600 AUDIO CODEC	\$4,990

The NEW! OPTICODEC 7600 is a fully duplexed audio codec with ISDN and Ethernet 10/100-Base T-connection for remote control and the possibility to distribute audio over networks such as Intranet, ATM, etc. TCP for point-to-point and point-to-multipoint connections, UDP for Broadcast and Multicast modes. Additionally, an X.21 or V.35 interface as well as optionally up to three ISDN interfaces or mixed with POTS interfaces. Configuration and operation directly with the keypad. High resolution graphical display.

The NEW! OPTICODEC 7600 is an extremely powerful codec using the latest Motorola DSP. With our automatic Codec Detect function, you do not have to worry about what codec is on the other side.

OC7400/IMD4	ISDN-BR1 INTERFACE	\$595
ISDN-BR1 interface, w	hich can be added to the 7400 or 7600 to provide two ISDN interfaces.	

6300 NEW! OPTIMOD-DAB 6300 \$5,490 (See HD Processing Page 3 for details)

ORBAN STUDIO PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
6300	NEW! OPTIMOD-DAB 6300	\$5,490
	(See HD Processing Page 3 for details)	33,430

ORBAN STREAMING MEDIA ENCODERS FOR PC

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
1010-LE	OPTICODEC-PC 1010 LE	\$99
sound cards. OPTICOD	ccept limited to encoding a single stream at a single bit rate between 8 and 32 kbps, and compatible of DEC-PC LE runs on Microsoft Windows® 2000/XP and supplies streams compatible with the free Darv der BSD, Solaris, Linux, Windows, and Macintosh. Includes OPTICODEC-PC LE aacPlus™ encoding so	vin Streaming
1010-LE VERSION	OPTICODEC-PC 1010 LE (VERSION 2 UPGRADE)	\$49

ORBAN STREAMING MEDIA ENCODERS FOR PC (Cont.)

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
1010-SE	OPTICODEC-PC 1010 SE	\$199
Mid-cost with 4 simul	taneous streams at bit rates from 8 to 320 kbps	
1010-SE UPGRADE	OPTICODEC-PC 1010 SE (UPGRADE)	\$149
Upgrade from 1010-L	E license to 1010-SE	
1010-PE	OPTICODEC-PC 1010 PE	\$495
customers who wish t professional encoding	PC PE in the OptiCodec-PC PE / 1100 Package listed below, but without the Optimod-PC 1100. This proposed add AAC/aacPlus premium encoding technology to their existing Optimod-PC 1100. Includes Opticod software, software license and user documentation. NOTE: To operate, OPTICODEC-PC PE requires pre 100 professional sound card in the same computer. Please supply your OPTIMOD-PC serial number who	ec-PC PE sence of an
1010-PE UPGRADE	OPTICODEC-PC 1010 PE (UPGRADE)	\$395
Upgrade existing Opti	codec-LE license to Opticodec-PE	
1010-PE VERSION 2 UPGRADE	OPTICODEC-PC 1010 PE (VERSION 2 UPGRADE)	FREE
Upgrade from 1010-P	E Version 1 license to 1010-PE Version 2	
1010-PC PE / 1100 PACKAGE	OPTICODEC-PC 1010 PE / OPTIMOD-PC 1100 PACKAGE	\$2,195

This pacakage contains the OPTICODEC-PC 1010 PE MPEG-4 AAC/aacPlus[™] encoding software and an OPTIMOD-PC 1100 PCI card. OPTICODEC-PC PE enables broadcasters to encode multiple audio streams at bit rates from 8 to 320 kbps. Optimized for streaming and digital radio, OPTIMOD-PC 1100 is a stereo audio processor on a PCI card for computers running Windows® 2000 (US only), XP Home and Professional editions. Its on-board 24-bit Motorola DSP does all audio processing. It is also a high-quality sound card with analog I/O, AES/EBU digital output, and two mixing AES/EBU digital inputs with sample rate conversion. The output sample rate can sync to the 1100's internal crystal or to either digital input. The card includes WAVE drivers that allow it to send and receive WAVE streams from the host computer and to mix these with the card's hardware analog and digital inputs. Multiple cards can be installed in the host computer, limited only by CPU resources and the number of available PCI slots. OPTIMOD-PC 1100 drives the OPTICODEC-PC PE software, which emits streams compatible with the free Darwin Streaming Server, which can run under BSD, Solaris, Linux, Windows, and Macintosh. In addition to the Optimod-PC 1100 PCI card and the OPTICODEC-PC PE AAC/aacPlus[™] professional encoding software, this package includes an I/O mating connector, and user documentation.

ORBAN STREAMING MEDIA ENCODERS FOR PC (Cont.)

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
1010-PKG-1	OPTICODEC-PC 1010 PE / COMPUTER PACKAGE	\$3,990

Integrated audio processing and MPEG-4 AAC/aacPlus streaming audio encoder hardware package in a two-rack unit computer built on an Intel motherboard and running Windows® XP Professional. Orban's Opticodec-PC PE and one or more Optimod-PC stereo audio processor cards are pre-installed. The base Optimod-PC Encoder contains one Optimod-PC card and can create multiple streams at multiple bit rates if all streams contain the same audio content. Options allow the customer to specify installation of up to two Optimod-PC cards locally or up to 12 Optimod-PC cards by using the available PCI expansion chassis, enabling one Opticodec-PC Encoder to handle multiple programs as well as multiple streams.

OPTICODEC-PC OPTIONS

- Darwin Streaming Server (Free)
- Additional Opticodec-PC PE's (consisting of software and Optimod PC cards)
- PCI Expander Chassis

Contact Orban for information and pricing on options.

ORBAN STREAMING FILE ENCODERS FOR PC

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
1020-FE PERSONAL	OPTICODEC-PC 1020 FE PERSONAL	\$99
1020 FE PERSONAL, Ba	sic AAC/HE-AAC(aacPlus) file encoder, no file hinting.	•
1020-FE PROFESSIONAL	OPTICODEC-PC 1020 FE PROFESSIONAL	\$199
1020 FE PROFESSIONA	L, AAC/HE-AAC(aacPlus) file encoder featuring batch encoding capabilities and hinting for most dev	ices, except 3GP.
1020-FE ENTERPRISE	OPTICODEC-PC 1020 FE ENTERPRISE	\$999
1020 FE ENTERPRISE, 9	ame as above but with 3GP hinting included.	-
1020-PKG-1	OPTICODEC-PC 1020 FE / OPTIMOD-PC 1100 PACKAGE	\$2,690
The Opticodec 1020-PC	is the combination of the 1020-FE Enterprise and the Optimod-PC 1100.	

CRL FM / AM / TV PROCESSING

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
	AMIGO FM COMPLETE ANALOG PROCESSOR	\$2,995

CRL's most popular processor. Fully equipped and one rack unit high, it comes with multi-band AGC, tri-band limiting and a stereo encoder (generator). Electronically balanced analog left/right inputs and outputs (barrier strip) and composite multiplex outputs (BNC). Pre-emphasis is jumper selectable to 50µs or 75µs. 1RU. 17 lb/7.7 kg.

AMIGO SCA

\$2,395

Subcarrier generator for voice or data applications. Automatic on-off control enables/disables generation of signal when audio is absent/present. Frequency selectable by internal jumper controls. Factory set for either 67kHz or 92kHz. Another frequency can be set by the factory, (if specified when placing the order), or by the user in the field. Electronically-balanced analog input. Single SCA output (BNC), data input interface (DB9). 1RU. 16 lb/7.3 kg.

AMIGO AM COMPLETE ANALOG PROCESSOR

\$2,995

Our best-selling complete AM processor. Includes AGC (Automatic Gain Control), tri-band limiter, and asymmetry controls. Bandwidth is 9.5 kHz (NRSC). Mono or stereo. Electronically balanced analog input, stereo and mono balanced analog outputs. 1RU. 18 lb/8.2 kg.

TVS3001 STEREO TRI-BAND AUDIO GAIN CONTROLLER

\$4,995

Full-featured stereo gain controller. Phase reversal detection circuit, Fh sync suppression, audio asymmetry removal, CBS Loudness Controller, and linearized AGC. Remote control of the phase reversal and loudness controller circuit via contact closures. Balanced left and right audio inputs and outputs (barrier strip). 2RU. 23 lb/10.5 kg.

TVS3003 MTS GENERATOR / LIMITOR

\$8,995

Full-featured stereo gain controller. Phase reversal detection circuit, Fh sync suppression, audio asymmetry removal, CBS Loudness Controller, and linearized AGC. Remote control of the phase reversal and loudness controller circuit via contact closures. Balanced left and right audio inputs and outputs (barrier strip). 2RU. 23 lb/10.5 kg.

TVS3010 GAIN CONTROLLER / AUDIO LIMITER

\$6,795

Containing sophisticated circuitry, the TVS3010 is the processor of choice for satellite uplink operations and stations needing superior limiting without stereo generation. An input phase reversal circuit, input sync suppression filter, linearized tri-band AGC, and CBS Loudness Controller contribute to making the audio clean and clear. Stereo enhancement, intelligent limiting, and easy-to-use front panel controls and metering make it the right choice. Remote control via contact closure of the loudness and phase reversal circuits. Balanced left and right analog audio inputs and outputs (barrier strip.) 2RU. 23 lb/10.5 kg.

TVS3004 PRO GENERATOR

\$2,495

Full audio processing included. All controls are mounted on the front panel for easy access. The rock-stable sub-carrier output of 102.271 (6.5 times Fh) ensures a quality signal for use in your station. 1RU. 17 lb/7.7 kg.

CRL FM / AM / TV PROCESSING (Cont.)

MODEL	PRODUCT NAME	PRO USER NET PRICE (USD)
	TVS3006 SAP AUDIO PROCESSING SYSTEM	\$6,495

Contains the Amigo TV mono limiter and the TVS3005 SAP Generator. The system provides for top quality audio for your viewers on the SAP channel. The Amigo TV has AGC and peak and bandwidth limiting while the TVS3005 SAP generator encodes the signal and provides for audio filtering. 2RU. 32lb/14.5kg.

AMIGO STUDIO S

\$2,595

Stereo gain controller, for use prior to preceding either an STL or recording device in studios. Provides consistent levels to other audio devices as well. Selectable gain reduction and release time. Dynafex® noise reduction circuits. Balanced analog left and right audio inputs and outputs (barrier strip). 1RU. 16 lb/7.3 kg.

AMIGO TIMER

\$895

Real-time event sequencer (timer) for controlling any device remotely, or when a precise start or stop time is required. Outputs can be latched or momentarily closed. Accepts a sync input to slave to an external timing device. Memory can store up to 255 events on eight different outputs. Software allows for editing, adding or deleting of events via a PC, either directly connected or via modem. 1RU. 8 lb/3.6kg.