

DMB Modulator PCI Adaptor is designed for OEM developer of T-DMB transmitter and provided with Driver for XP and API reference for customer's own design application.

DMM-402 doesn't required any additional expensive ETI card, and have ability read ETI Stream and to output with 2 X IQ Signals. The IQ Signals will eventually enter to Upconverters (UPC-231).

## T-DMB/DAB Modulator

# OEM PCI Board

## CATALOGUE

>> DMB/DAB PCI board

>> ASI PCI board

>> SPI PCI board

### Features

- DAB/T-DMB Modulator PCI BUS
- Compliant with EN 300 401 and ETS 300 799
- Support to all DAB Mode I, II, III, IV modes
- Easy ETI stream play out
- High Performance modulation (MER, IF Stability, and other)
- Support device driver and API for Window 2000/XP
- Offer double I/Q SMA port
- Output Frequency : Band II, III and L-BAND
- 2 x IQ Output Support

### Specification

- Output Voltage : 1 Vp-p
- Output Impedance : 50Ω
- Connector : SMA-Connector



# DMM-402

This product provides up converter functions of Multiple RF signals such as Band II, Band III, and L-BAND. You can use this product for your application with our other products such as Mega Cruiser or DMM-402 T-DMB Modulator PCI Adaptor.

Real-time and high-speed DVB/ASI input adaptor PCI type provides receive mode of DVB/MPEG-2 stream with high stable performance. The newest DVB/ASI input-output adaptor is PCI type board for the applications of DVB/MPEG-2 standard. We had developed it successful and operating in the field by the major with their applications of digital broadcasting.

You can install it in any sophisticated or simple environment easily and use it for your application software with the API libraries included the package. We believe that supports your business to digital broadcasting market. It captures MPEG2 stream through ASI input port of dual mode. Also, It has capability of real-time transport stream processing.

To use its input rate monitoring function based hardware and PCI DMA bus master mode, you can compose a best solution of digital broadcasting and application efficiently.

### T-DMB/DAB Upconverter

### DVB-ASI Input PCI Adaptor

#### Features

Simultaneous Band II / III, L-BAND transmission and configuration I2C Interface - Support daisy chain configuration

#### I/Q Input

- Input Voltage : 1 Vp-p
- Input Impedance: 50Ω
- Connector : SMA-Connector

#### Power Requirements

- DC 12V (640mA), DC 5V (910 mA)

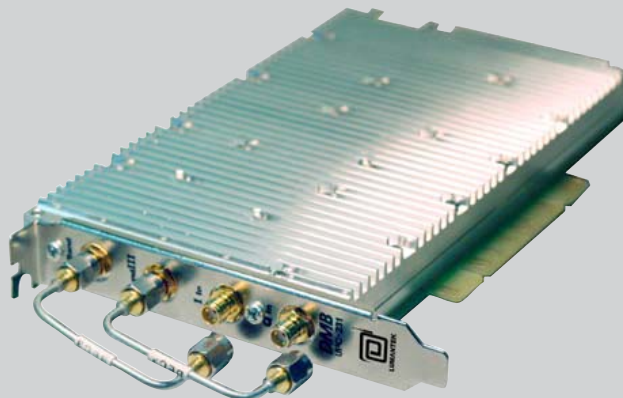
#### RF OUT

- Frequency Range
  - Band II : 87.5 MHz ~ 108 MHz
  - Band III : 174 MHz ~ 250 MHz
  - L Band : 1.452 GHz ~ 1.492 GHz
- Resolution
  - Band II/III : 1 KHz
  - L-BAND : 100 KHz
- Accuracy
  - ±1 ppm
- Level
  - Range 0 dBm ~ -120 dBm
  - Resolution 0.5 dB
  - Accuracy ±1 dB
- Connector
  - SMA - Connector

#### Features

- High-speed input compliant to DVB/ASI-C as defined DVB documents A010 rev.1 And EN50083
- Synchronized and raw receive modes
- Input Diagnostic LED
- 8MBytes input buffer for large jitter tolerance ; independent 8MBytes output buffer
- Hardware based Input rate monitoring PCI DMA bus master mode
- Operation of input to the full DVB/ASI bit-range (Input : 0~216 Mbps)

UPC-231



ASI-100



Real-time and high-speed DVB/ASI output adaptor PCI type provides transmit mode of DVB/MPEG-2 stream with high stable performance. The newest DVB/ASI output adaptor is PCI type board for the applications of DVB/MPEG-2 standard. We had developed it successful and operating in the field by the major with their applications of digital broadcasting.

You can install it in any sophisticated or simple environment easily and use it for your application software with the API libraries included the package. We believe that supports your business to digital broadcasting market. It transmit and plays MPEG2 stream through ASI output port of dual mode. Also, It has capability of real-time transport stream processing.

To use its input rate monitoring function based hardware and PCI DMA bus master mode, you can compose a best solution of digital broadcasting and application efficiently.

### DVB-ASI Out PCI Adaptor

#### Features

- High-speed output, compliant to DVB/ASI-C as defined DVB documents A010 rev.1 And N50083
- PCI DMA bus master mode
- Operation of output of the full up to 108 Mbps DVB/ASI bit-range (Input : 0~216 Mbps / Output : 0~108 Mbps)
- Hardware based rate conversion
  - : NULL packet Insertion and PCR re-stamping
  - : PIP Filtering, Remapping
- Output Diagnostic LED
- 8MBytes input buffer for large jitter tolerance; independent 8MBytes output buffer
- PCI rev. 2.2, 32 bits, 33 MHz
- Packet size conversion between 188 and 204 bytes.
- Supports device driver and API for Windows 2000/ XP/ NT4/ Linux



ASO-102

Real-time and high-speed DVB/ASI input-output adaptor PCI type provides receive and transmit mode of DVB/MPEG-2 stream with high stable performance. The newest DVB/ASI input-output adaptor is PCI type board for the applications of DVB/MPEG-2 standard. We had developed it successful and operating in the field by the major with their applications of digital broadcasting.

You can install it in any sophisticated or simple environment easily and use it for your application software with the API libraries included the package. We believe that supports your business to digital broadcasting market. It is for the applications that capture, transmit, and play through ASI ports of dual mode. Also, It has capability of real-time transport stream processing.

To use its input rate monitoring function based hardware and PCI DMA bus master mode, you can compose a best solution of digital broadcasting and application efficiently.

### DVB-ASI In-Out Adaptor

#### Features

- High-speed input & output, compliant to DVB/ASI-C as defined DVB documents A010 rev.1 And EN50083
- Hardware based Input rate monitoring
- PCI DMA bus master mode
- Operation of input or output of the full DVB/ASI bit-range (Input : 0~216 Mbps / Output : 0~108Mbps)
- Synchronized and raw receive modes
- Hardware based rate conversion
  - : NULL packet Insertion and PCR re-stamping
  - : PIP Filtering, Remapping
- Packet size conversion between 188 and 204bytes. Supports device driver and API for Windows 2000/ XP/ NT4/ Linux
- Counters for bit-rate measurement, 8B/10B code violations and synchronization errors
- Input/Output Diagnostic LED
- 8MBytes input buffer for large jitter tolerance; independent 8MBytes output buffer
- Double-buffering: DVB/ASI output available on two BNC connectors
- Scatter/Gather DMA for efficient handling of fragmented host memory PCI rev. 2.2, 32 bits, 33MHz
- TS Stream player - optional



ASA-105

This product is a PCI type adaptor with DVB-ASI and SPI(LVDS) output port. You can use the product with computer.

This PCI adaptor will be applicable for MPEG-2 TS generator, DVB-IP gateway, Digital broadcast advertisement insert server, STB manufacture equipment and so on.

### ASI and SPI(LVDS) Output PCI Adaptor

This product is an adaptor PCI type with SPI (LVDS) input port.

You can use the product with computer. This PCI adaptor will be applicable for MPEG-2 TS monitoring server, DVB-IP gateway, STB manufacture equipment and so on.

### SPI (LVDS) Input PCI Adaptor

#### Features

- Compliant to DVB document A 010 rev. I and EN 50083
- Output bit rate: Maximum 108 Mbps
- Packet size conversion: 188 and 204 bytes
- Hardware-based rate conversion (for only advanced version)
- Null packet insertion and PCR re-stamping
- PCI DMA bus master mode
- 8 MBytes buffer memory for large host CPU processing jitter
- PCI rev. 2.1 32 bits, 33 MHz compliant
- Support device driver and API for Windows 2000/ XP/ NT4/ Linux
- TS Stream player - optional

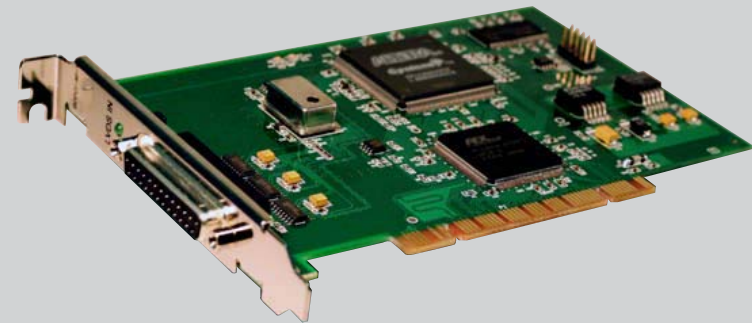
#### Features

- Compliant to DVB document A 010 rev. I and EN 50083
- Input bit rate: Maximum 216 Mbps
- Packet size conversion: 188 and 204 bytes
- Hardware-based input rate monitoring
- Time stamp insertion
- PID filtering, remapping, and checking (for only advanced version)
- PCI DMA bus master mode
- 8 MBytes buffer memory for large host CPU processing jitter
- PCI rev. 2.1 32 bits, 33 MHz compliant
- Support device driver and API for Windows 2000/ XP/ NT4/ Linux

LVD-115



LVI-110



This product is a PCI type adaptor with SPI (LVDS) output port.

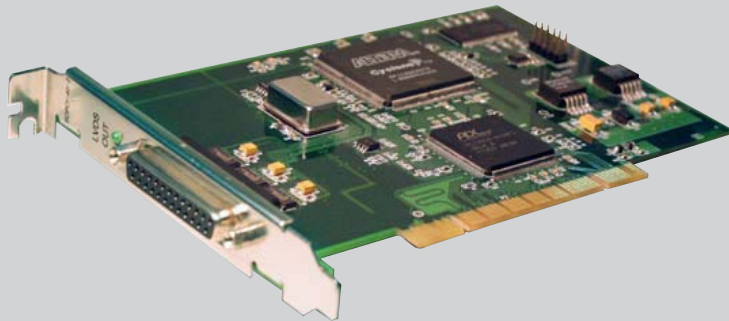
You can use the product with computer.  
This PCI adaptor will be applicable for MPEG-2 TS generator,  
DVB-IP gateway, Digital broadcast advertisement insert server,  
STB manufacture equipment and so on.

### SPI (LVDS) Output PCI Adaptor

#### Features

- Compliant to DVB document A 010 rev. I and EN 50083
- Output bit rate: Maximum 108 Mbps
- Packet size conversion: 188 and 204 bytes
- Hardware-based rate conversion (for only advanced version)
- Null packet insertion and PCR re-stamping
- PCI DMA bus master mode
- 8 MBytes buffer memory for large host CPU processing jitter
- PCI rev. 2.1 32 bits, 33 MHz compliant
- Support device driver and API for Windows 2000/ XP/ NT4/ Linux
- TS Stream player - optional

LVO-110



# LUMANTEK

Everyday <sup>in</sup>  
Digital Life