



## Board Specifications

<b>Transport Stream Input</b> From Hard disk Thru PCI Express <b>Bit Rate</b> Up to 90Mbps/s <b>ASI/SMPTE-310M Input</b> Connector: 75ohm BNC <b>RF Output</b> Connector : 75ohm BNC Freq : 55~2150MHz Level : 0dBm max	Freq accuracy: +/-5KHz max Attenuation step: 0.1dB Phase noise <-90dBc/Hz @ 10KHz RF step size: 50KHz step(except for TDMB, TDMB: 8KHz step) <b>PCI Bus</b> PCI express x1 compliant <b>Physical/Environmental</b> HxWxL: 25mm x 107mm x 170mm	<b>Driver</b> Windows XP, 2000, 7, VISTA 32bit WDM and Linux <b>Application Software</b> Televue made GUI <b>Operating Condition</b> Temperature: 0~45°C Humidity: 0~85%
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## DVB-T/H Option Specifications

<b>Standard</b> ETSI EN300744 v1-4-1 compliant Non-hierarchical single program mode <b>Punctured Code Rate</b> 1/2, 2/3, 3/4, 5/6, 7/8 selectable <b>Constellation</b> QPSK, 16-QAM, 64-QAM	<b>Transmission Mode</b> 2K/4K/8K mode selectable 4K mode only for DVB-H <b>Guard Interval</b> 1/4, 1/8, 1/16, 1/32 selectable	<b>In-Depth Interleaving</b> Only for DVB-H <b>Bandwidth</b> 5/6/7/8MHz mode selectable 5MHz only for DVB-H
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## 8VSB Option Specifications

<b>Standard</b> ATSC A.53 Part 2: 8VSB compatible		
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## QAM Option Specifications

<b>Standard</b> ITU-T J.83 Annex A/C and B compatible	<b>Constellations</b> Annex A/C: 16-QAM, 32-QAM, 64-QAM, 128-QAM, 256-QAM	Annex B :64-QAM, 256-QAM
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## DVB-S Option Specifications

<b>Standard</b> ETSI EN 300421 (DVB-S) compliant	<b>Code Rate</b> 1/2, 2/3, 3/4, 5/6, 7/8	<b>Symbol Rate</b> 1~45M symbols/s <b>DC Blocking Voltage</b> 50V max
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## DVB-S2 Option Specifications

<b>Standard</b> ETS 302 307 Broadcast services compliant <b>LDPC Code</b> 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, and 9/10 supports	<b>Modulation Mode</b> QPSK, 8PSK, 16APSK, 32APSK <b>Baseband Shaping Filter</b> Roll-off 0.20, 0.25, 0.35, selectable	<b>Symbol Rate</b> 1~45M symbols/s <b>DC Blocking Voltage</b> 50V max
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## T-DMB Option Specifications

<b>Standard</b> ETS 300401, ETS300799 compliant <b>Transmission Mode</b> DAB transmission modes I, II, III, IV	- Transmission mode automatically selected from the ETI stream	Supports ETI(NI) and ETI(NA) file format
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## ISDB-T Option Specifications

<b>Standard</b> ARIB STD-B31 v1.6 compliant <b>Mode</b> Mode I, Mode II, Mode III <b>Code Rate</b> 1/2, 2/3, 3/4, 5/6, 7/8 selectable <b>Mapping</b> DQPSK, QPSK, 16QAM, 64 QAM	<b>Guard Interval</b> 1/4, 1/8, 1/16, 1/32 <b>Time Interleaving Length</b> Mode I - 0, 4, 8, 16 Mode II - 0, 2, 4, 8 Mode III - 0, 1, 2, 4	<b>The Number of Segment</b> 1 / 13 Segment <b>Support TMCC Information and Generation</b> (ISDB-T information and IIP) *ISDB-T direct modulation from DVB-ASI input is supported.
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## ISDB-S Option Specifications

<b>Standard</b> ARIB STD-B20 v3 compliant	<b>Modulation</b> TC8PSK, QPSK, BPSK (hierarchical)	*ISDB-S modulation from DVB-ASI input is not supported
<b>FEC</b> inner:Trellis, convolutional coders outer:RS(204,188)	<b>Code Rate</b> 1/2, 2/3, 3/4, 5/6, 7/8 selectable	*Supports framed TS with TMCC (1~8 TS have totally 48 slots can be selected)

## DTMB Option Specifications

<b>Standard</b> GB20600-2006 compliant	<b>Constellation</b> 4QAM-NR, 4QAM, 16QAM, 32QAM, 64QAM	<b>Time Interleaving Length</b> 240, 720 symbols
<b>Number of Carrier</b> 1 or 3780 sub-carriers selectable	<b>Code Rate</b> 0.4, 0.6, 0.8	<b>Bandwidth</b> 8MHz
<b>Frame Length</b> 4200, 4335, 4725 symbols		

## ATSC-M/H Option Specifications

<b>Standard</b> ATSC A/153 Part2 compliant	*Supports captured file play, live from external ATSC-M/H MUX through ASI-SMPTE-310M input	
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