

# DVB-T/T2 Dual Monitoring Blade

## VB252



VB252 is a dual input DVB-T/T2 input interface module that enables monitoring of digital terrestrial transmissions. Two modules may be housed in a 1RU chassis together with a controlling VB120 or VB220 probe, providing high monitoring capacity occupying a minimum of rack space.

In addition to monitoring typical RF parameters, the monitoring solution optionally allows advanced analysis of the complex T2-MI protocol; signal integrity is verified layer by layer. This analysis functionality is complemented by the renowned VideoBRIDGE ETSI TR 101 290 monitoring engine to ensure standards conformance at all levels.

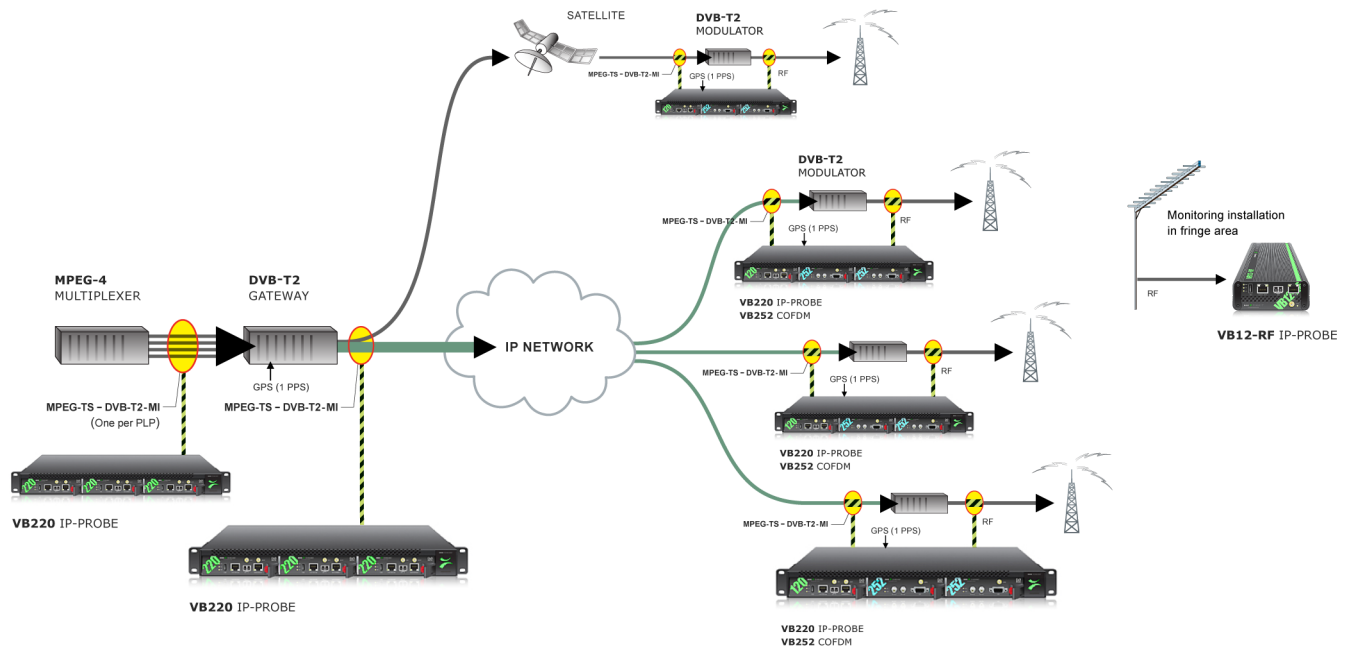
DVB-T2 allows signal distribution to transmitter sites via IP in addition to synchronous distribution methods like satellite. The VB120/VB252 combination enables monitoring of up to 50 IP multicasts, thus monitoring IP network distribution together with DVB-T2 transmissions. It is even possible to equip the monitoring chassis with a VB272 satellite interface module, which is valuable if combined IP and satellite distribution to transmitter sites is used.

## KEY FEATURES

- Standards: DVB-T (EN 300-744), DVB-T2 (EN-302-755)
- Fully compliant with DVB-T2 v1.3.1 including T2-lite and L1 post scrambling
- Dual input digital terrestrial receiver one input is standard, second input is enabled with optional license
- Fully independent inputs
- All bands DVB-T/T2 receiver (47 - 1000 MHz)
- Symbol rate range: 0.7 to 7.2 Msym/s
- Full support for MFN and SFN systems
- Channel bandwidth: 6, 7 or 8 MHz
- RF inputs: 75 ohms F-connector
- 1PPS input: 50 ohms SMA connector, female
- Measured RF parameters: packet error rate, signal level, SNR, pre LDPC BER, pre and post BCH BER, MER
- SFN drift monitoring using 1PPS input signal
- Constellation diagram
- Impulse response diagram with optional license
- Configurable round-robin testing
- Fully controlled via backplane by VB120 or VB220
- LEDs indicating RF signal lock
- Built-in general purpose alarm relay (GPI)

# SPECIFICATIONS

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### MONITORING SPECIFICATIONS

Minimum input signal level:	-80 dBm
Maximum input signal level:	-20 dBm
Level accuracy:	+/- 1.5 dB
Maximum MER:	>38 dB
MER accuracy:	<1.5 dB
Carrier offset:	<15 ppm of frequency

### RF INPUT

F-connector, female

### ALARM RELAY

9-pin D-SUB, male  
3-pin relay contacts

### MECHANICAL

Standard 19" 1RU rack-mount  
W x H x D: 19 x 1.7 x 15.75in. (483x43x400 mm)  
Weight: 9.3 lbs (4.2 kg) fully populated

### ENVIRONMENT SPECIFICATIONS

Operating temperature:	0°C to 45°C
Storage temperature:	-20°C to 70°C
Operating humidity:	5% to 95% non-condensing

### CONTROL AND MANAGEMENT

Fully controlled through backplane  
Accessible through master VB120 or VB220 user interface

### POWER SUPPLY REQUIREMENTS

Draws power from backplane (+5V)  
Maximum 5W dissipated per card