

# ***PURE**definition™*

## DVB-T/H/T2 OEM MODULATOR



PureDefinition™ family of modulators offer measurement equipment grade purity of modulated spectrum coupled with Beyond Devices unsurpassed customer support and integration services.

### Highest modulation performance

The PureDefinition™ DVB-T/H/T2 modulator continues the Beyond Devices legacy of high-performance modulator boards with **outstanding RF signal quality** and signal adaptation performance. Based on extremely accurate timing references and powerful signal processing it offers **unsurpassed modulation purity** even at the highest frequency bands and with the high density signal constellations.

### The most compact OEM DVB-T2 solution

In the past years we have seen continuous drive towards increasing levels of integration. The PureDefinition™ DVB-T/H/T2 modulator takes this trend one step further, integrating all required subsystems in the most compact single solution in the industry, without compromising modulation performance.

### Ease of deployment, free integration support and customization

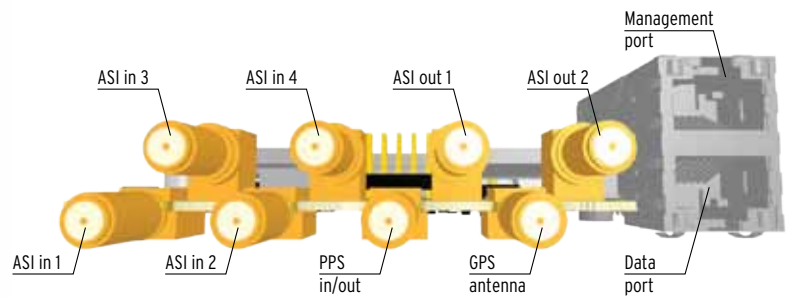
To achieve optimal price / performance it is necessary to develop **integrated solutions** that are more than just a sum of even the best parts. Our team is passionate about providing such **solutions** for any specific application. We provide **free system integration\*** of PureDefinition™ DVB-T/H/T2 modulators into new or existing customer systems. Software integration is straightforward through Ethernet or direct API's. If numerous PureDefinition™ DVB-T/H/T2 modulator hardware and software settings are not able to fulfill your vision of differentiation, we provide **customization** to realize even the most **challenging ideas**.



\* please contact us for details

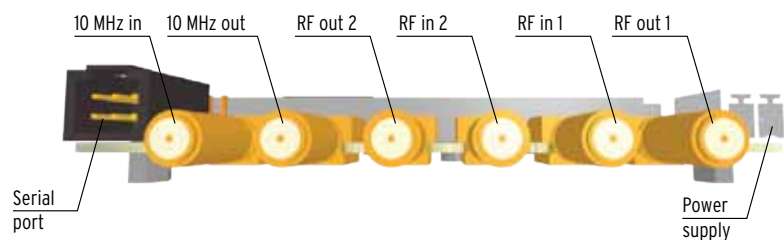
## Multi Standard, Future-proof platform enables easy migration path from DVB-T/H to DVB-T2

The PureDefinition™ DVB-T/H/T2 modulator future-proof hardware platform enables remote **software and signal processing upgrades**, functional extensions and **multi standard support** to guarantee up to date system operation without the need for a new equipment installation.



## Advantages for customers

- Leading modulation performance
- Superior timing reference holdover stability
- The most compact OEM DVB-T2 solution on the market
- Optional DVB-T/H standard
- Integrated automatic adaptive digital pre-corrections
- Single solution for VHF/UHF/L-BAND
- Management and data streaming over IP networks
- System level reliability through input and output redundancy
- Direct API interfacing to major vendors
- Free integration support at the customer site



Ordering code	Description
BYDP101	High performance modulator board supporting VHF, UHF and L-Band output

## Key performance characteristics

- MER > 51dB in all modes of operation and all frequencies
- Shoulder suppression more than 60dB
- Exceptionally low phase noise
- Holdover stability typically 2µs/6h
- Frequency stability better than ± 0.5Hz/day
- Optional +10dBm RF output power

## Key features

- Easy to use GUI
- Seamless switching between redundant input data ports
- Multiple PLP
- MFN, SFN and MISO operation
- PAPR reduction
- Quality of signal monitoring
- Integrated GNSS (GPS or GLONASS) with high precision OCXO
- Gigabit Ethernet data port
- Automatic adaptive digital pre-corrections
- DVB-T/H standard supported
- Dual RF output

Option code	Description
OPT-BYDP101-DVBTH	Modulation support for DVB-T/H
OPT-BYDP101-DVBT2	Modulation support for DVB-T2
OPT-BYDP101-DTMB	Modulation support for DTMB (please contact us)
OPT-BYDP101-TIME	GNSS (GPS or GLONASS) and high stability OCXO for the most demanding SFN sites
OPT-BYDP101-NET	2x Ethernet ports, for management over IP and IP distribution of streams
OPT-BYDP101-AADP	Linear and Non-Linear Automatic Adaptive pre-corrections
OPT-BYDP101-AUX	Two additional ASI inputs and two ASI outputs
OPT-BYDP101-RF2	Additional RF output
OPT-BYDP101-POW	Output power increase to 10 dBm

**BEYOND**   
DEVICES

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