



PURE definition™

DVB-T/T2 MODULATOR



PureDefinition™ family of broadcasting solutions offers measurement equipment grade radio frequency performance coupled with Beyond Devices unsurpassed customer support and integration services.

Highest RF performance

The PureDefinition™ DVB-T/T2 standalone modulator presents high-performance modulator platform 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 high-density signal constellations.



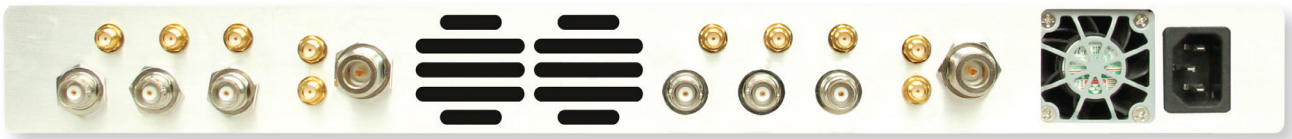
R&D laboratories as well as other regulatory and academic institutions that need a single evaluation platform for comparison of various standards.

Multistandard, dual modulation standalone platform

The PureDefinition™ DVB-T/T2 modulator features simultaneous **dual modulation** supporting legacy and emerging standards for television broadcasting inside a chassis designed for demanding industrial and studio applications. Due to its fully independent RF channels it is especially suited for

Ease of deployment, interoperability and customization

Beyond Devices continuously drives towards increasing levels of integration without compromising its unrivaled performance. The PureDefinition™ DVB-T/T2 modulator offers a single rack mount solution for fast time-to-market requirements and **interoperability** with third party RF equipment allowing **optimal system integration** and a high level of **customization**.



Advantages for customers

- Leading modulation performance
- Dual modulation and fully independent RF channels inside a single chassis
- Superior timing reference holdover stability
- Integrated automatic adaptive digital pre-corrections
- Management and data streaming over IP networks
- Free integration support at the customer site

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 2 μ s/6h
- Frequency stability \pm 0.5Hz /day
- Up to +27dBm RF output power*

Key features

- Easy to use GUI with network management
- Multiple standard support
- Independently modulated RF channels
- Gigabit Ethernet data port
- SFN, MFN and MISO operation
- Integrated GNSS with high precision OCXO
- PAPR reduction
- Automatic adaptive digital pre-corrections

Ordering code	Description
BYDC100	High performance DVB-T/T2 standalone modulator

Option code*	Description
OPT-BYDC100-PLUS	Additional fully independant DVB-T/T2 modulation channel
OPT-BYDC100-POW	27 dBm output power

*please contact for additional options

BEYOND 
DEVICES

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