

PUREdefinition™

DVB-T/H OEM MODULATOR

LEADING
MODULATION
PURITY WITH
UNSURPASSED
CUSTOMER
CARE

BEYOND 
DEVICES

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

Industry Leading Modulation Quality

The PureDefinition™ DVB-T/H modulator features many of the advanced techniques found in scientific instrumentation to achieve **industry leading signal quality** in all modes of operation, under supported environmental conditions. It offers **unsurpassed modulation purity** with excellent MER and exceptionally low phase noise, even at the highest transmission frequencies. With **its fully automatic adaptive digital signal pre-correction**, the PureDefinition™ DVB-T/H modulator represents a highly integrated, state-of-the-art OEM solution for the broadcasting market.

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 modulators into new or existing customer systems. Software integration is straightforward through Ethernet or direct API's. If numerous PureDefinition™ DVB-T/H 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

Advantages for customers

- Leading modulation performance
- Superior timing reference holdover stability
- The most compact OEM DVB-T/H solution on the market
- Integrated automatic adaptive digital precorrections
- Single solution for VHF/UHF/L-BAND
- Management and data streaming over IP networks
- Direct API interfacing to major vendors
- Free integration support at the customer site

Key features

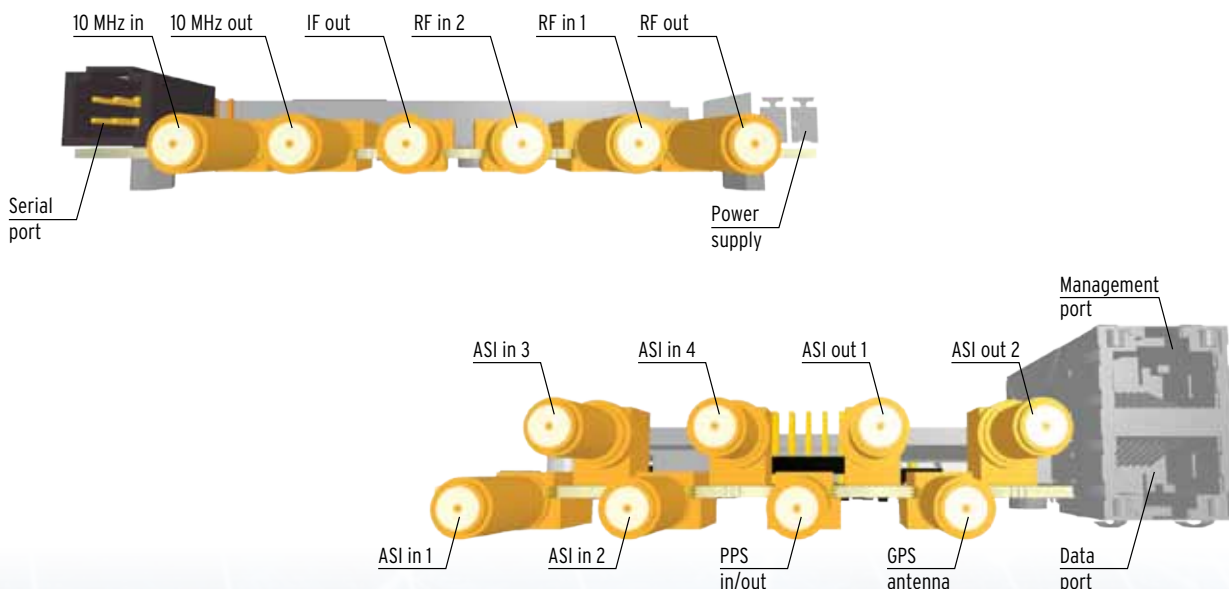
- Easy to use GUI
- Fully supported ETSI EN 300 744 standard
- Multiple management ports (serial or BASE-T Fast Ethernet)
- Gigabit Ethernet data port
- Seamless switching between redundant input data ports
- SFN and MFN operation
- Integrated GNSS (GPS or GLONASS) with high precision OCXO
- PAPR reduction
- Automatic adaptive digital pre-corrections

Ordering code	Description
BYDP100-RF	High performance modulator board supporting VHF, UHF and L-Band output

Option code	Description
OPT-BYDP100-TIME	GNSS (GPS or GLONASS) and high stability OCXO for the most demanding SFN sites
OPT-BYDP100-NET	2x Ethernet ports, for management over IP and IP distribution of streams
OPT-BYDP100-AADP	Linear and Non-Linear Automatic Adaptive Pre-Corrections.
OPT-BYDP100-AUX	Two additional ASI inputs and two ASI outputs.
OPT-BYDP100-MON	Additional IF and monitoring output (VHF band supported)
OPT-BYDP100-POW	Output power increase to 10 dBm

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 better than ± 0.5 Hz/day
- Optional +10dBm RF output power



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