

MODULATOR

DMOD-3100

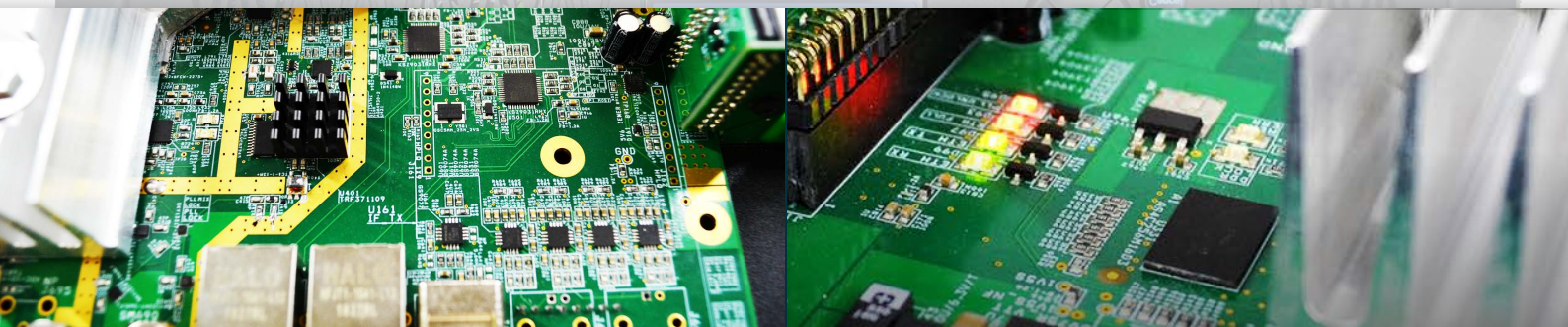
ISDB-T INTERNATIONAL STANDARD

► Built-in Multiplexer and Decompressor

- Optional modules that reduce implementation costs.

► Input monitoring

- Allows you to see the services present in each input of the equipment.
- Alarm in the absence of signal and automatic switching.



VideoSwitch has developed a set of devices to meet the needs of the new Digital Terrestrial Television Broadcasting Stations.

► A WIDE VARIETY OF OPTIONS

Possibility of incorporating Multiplexer, Decompressor and GPS among many other options, which can cover the needs from small low-budget channels to SFN systems with national coverage.

► GREAT STURDINESS AND RELIABILITY

In every case, the devices are characterized by their sturdiness and reliability. They can also be configured and monitored via Web Server, enabling operators to configure them remotely and allowing VideoSwitch to give efficient technical support through the engineers that developed the equipment.

Modulator Equipment for Digital Terrestrial Television broadcasting stations compatible with ISDB-T International modulating standards. It is specially designed to operate both in VHF and UHF and in MFN and SFN systems with the addition of optional modules, which makes it a very versatile device that can adapt to the needs of any client.

It has ASI and IP Gigabit Ethernet inputs, with automatic redundancy option. In any case, the inputs can support either TS (188 bytes) or BTS (204 bytes) signals. It also has 10 MHz and 1 PPS inputs and outputs, which makes it easy to install in any environment.

The DMOD-3100 incorporates adaptive precorrector to optimize the use of the transmitter, and thanks to its modularity it allows adding functionalities such as: built-in GPS receiver and 75 Ohms output to be used in internal monitoring networks.

This equipment, like the DMUX-3100 Multiplexer, can be configured and monitored via Web interface and SNMP, besides using the front panel. In this case, it also features automatic configuration via BTS as established by ISDB-T International standard.



**DMOD-3100
ISDB-T INTERNATIONAL MODULATOR / EXCITER**

FUNCTIONS

- COFDM modulation in compliance with ARIB STD-B31 and ABNT NBR 15601
- ASI and IP GbE inputs with automatic redundancy function
- Remote and autonomous configuration via BTS
- Selectable frequency from 50MHz to 863MHz
- Synchronization for SFNs
- Adaptive correction linear and non-linear
- Supports EWBS (Emergency Warning Broadcast System)
- Optional: Built-in Multiplexer
- Optional: Built-in BTS Decompressor
- Optional: 75 Ohms output for internal monitoring networks
- Optional: Integrated GPS receiver for internal generation of 10MHz and 1PPS references [G]

INPUTS

- Standard: 1 IP GbE Input + 4 ASI Inputs
- Optional: 2 IP GbE Inputs (Main + BackUp) [2ID]
- Supports up to 4 SPTS/MPTS by IP Unicast/Multicast + 4 SPTS/MPTS by ASI in Modulator and Decompressor modes and up to 248 SPTS/MPTS by IP Unicast/Multicast + 4 SPTS/MPTS by ASI in Multiplexer mode

REFERENCES

- Input and Output (Active Loop) of 10 MHz and 1 PPS
- High accuracy Internal Oscillator with Hold Over
- Optional: Embedded GPS receiver [G]
- 2 x Feedback inputs from the Transmitter and Mask Filter for adaptive correction

OUTPUTS

- 50 Ohms: 1 x SMA RF +13dBm Max. (Main)
- 75 Ohms: 1 x "F" RF +3dBm Max. (Main)
- 1 x SMA RF -20dBc (Monitoring)
- 1 x ASI BTS (Monitoring)

CONTROL

- Software and Firmware management and update through a user-friendly and intuitive Web Interface
- User control for access restriction
- Hotswap front panel (removable when the equipment is running) for access to fans and sources, basic configuration and visualization of the equipment status with LEDs
- Global status indication of the device with alarm and error log
- RS-232 port for servicing and maintenance
- Monitoring and control through SNMP protocol (L)*
- Optional: Dual Ethernet interface for control and monitoring [2IC]

GENERAL INFO

- 1 UR 19" x 250mm (depth) - Removable Power Supply
- Optional: Dual Redundant Hot Swap Power Supply [2 FNT]
- Maximum Power consumption: 50W (depending on options)

*(L): Software licensing