

# TV exciters/transmitters

Preliminary version



BLUE DIGITAL VIDEO 1HE front view

## Features - Caratteristiche



- > **BLUE DIGITAL** supports DVB-T/H or ATSC (8VSB) full mode implementation. The version may change depending upon demand.
- > Very high modulation performance (MER, signal stability, shoulder level, low phase noise).
- > MFN and SFN operation.
- > Powerful Linear and Non-linear digital pre-correction.
- > Configuration software offers a simple, intuitive JAVA Graphic User Interface by USB connection.
- > Pressure encoder provides great accessibility for user/device interaction, resulting in extreme ease of use.
- > Total control thanks to microprocessor easily programmed from menu or via RS232 with all key parameters displayed on a wide-screen LCD.
- > Expansion slots to increase equipment potentiality: up to 2 Slot to add ASI inputs and 4 Slot to add Euro Cards like Pre-driver or Driver options.
- > TCP/IP and SNMP are available for optional telemetry control.
- > Built-in GPS Receiver, optionally available.
- > Compact and rugged, stainless steel chassis, in 1 rack unit only.
- > **BLUE DIGITAL** supporta la versione completa DVB-T/H o ATSC (8VSB). La versione può cambiare su richiesta.
- > Altissime prestazioni di modulazione (rapporto di errore di modulazione, stabilità del segnale, livello delle spurie generate fuori banda, basso rumore di fase).
- > Funzionamento MFN (Rete a Frequenze Multiple) e SFN (Rete a Frequenze Singole).
- > Potente pre-correzione digitale lineare e non-lineare.
- > Il software di configurazione offre un'interfaccia utente grafica JAVA semplice e intuitiva.
- > L'indicatore di pressione permette un'ampia interazione tra utente e dispositivo che garantisce un'estrema semplicità di utilizzo.
- > Controllo totale grazie a microprocessori programmati semplicemente da un menu o tramite RS232 con visualizzazione di tutti i parametri chiave sull'ampio schermo LCD.
- > Slot di espansione per aumentare la potenzialità dell'unità: fino a 2 slot per aggiungere ingressi ASI e 4 slot per implementare schede Eurocard, opzioni Pre-Driver o Driver.
- > I protocolli di trasmissione TCP/IP e SNMP sono disponibili per il controllo di telemetria opzionale.
- > Ricevitore GPS integrato, opzionale.
- > Struttura compatta e robusta in acciaio inossidabile in 1 sola unità rack.

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BLUE DIGITAL VIDEO 1HE rear view

## Technical specifications

STANDARDS	
 EN 300 744	 Advanced Television Systems Committee ATSC: A/53, A/54, A/64, SMPTE-310M
DVB-ASI: EN 50083-9, ETSI TR 101 891 MPEG-TS: ISO/IEC 13818-1	
MPEG-TS INPUT	
2 x DVB-ASI or SMPTE-310M connectors Automatic input switching for redundancy	
188 / 204 bytes	188 bytes, 19.392658 Mbits/sec
Bit rate adaption PCR restamping	
OUTPUT	
VHF I - III Band (50 Ω) UHF from 470MHz to 860 MHz (50 Ω)	VHF from 57 MHz to 85 MHz, from 177 MHz to 213 MHz (50 Ω) UHF from 473 MHz to 887 MHz (50 Ω)
Output Power: from 1 to 10 mWrms 10 MHz output available	
CLOCK AND SYNCHRONIZATION	
High quality internal clock OCXO 10 MHz 0.1 ppm internal or external reference Internal GPS for 1 PPS reference	
MODULATION	
All DVB-T & DVB-H modes supported (hierarchical and non hierarchical) 5, 6, 7 or 8 MHz channel bandwidth MFN or SFN network operation	8 levels VSB trellis for ATSC transmission 6 MHz channel bandwidth
High performance MER	
DIGITAL PRE-CORRECTION	
Non-linear and linear digital pre-correction Non-linear pre-correction over a 20 MHz bandwidth	Non-linear pre-correction circuit over a 15 MHz bandwidth Linear pre-correction circuits to compensate output filter characteristics
Graphic settings on JAVA interface pages	
CONTROL AND MONITORING	
RJ45 (LAN), IRDA, RS232 & RS485, USB	
POWER SUPPLY	
Voltage: 110 - 130 VAC; 200 - 250 VAC Frequency: 50 - 60 Hz	
PHYSICAL	
Dimensions: Std. 19" frame, 483 (19") W x 44 (1,73") H x 503 (19,08") D, mm.	
OPTIONS	
Output Power: from 1 Wrms - DVB-T to 2 Wrms - ATSC (optional slot amplifier) Built-in GPS professional receiver Telemetry control through TCP-IP and SNMP	

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.

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