

Systems Mux/Demux Flexible MODEMS DVB-S/DVB-T
COFDM systems HD/SD Encoders Mux/Demux COFDM systems
Backbone systems

SCALABLE MEDIUM & HIGH POWER DTV TRANSMITTERS



ALL4DIGIT
SYSTEM

DVB
Digital Video
Broadcasting

 **Eurotek**
Broadcast Solutions
...be better connected



HIGHLIGHTS

- From 150W to 2,4KW with the same amplifier module
- DVB-T/T2 & ISDB-T full compliant
- MFN / SFN full compliant with NIT / MIP processing
- Excellent MER value: > 37 dB
- Integrated GPS Professional Receiver with direct power supply for preamplified antenna and improved filtering
- Power modules with autonomous cooling concept
- Significant reduction of energy cost
- Innovative compact design
- Optimal & redundant power supply design
- Full management by SNMP & WEB

Questa nuova famiglia di prodotti Eurotek introduce un nuovo concetto di scalabilità e modularità applicato ai trasmettitori di media e alta potenza. L'utilizzo di un unico modulo di potenza da 150 W rms, opportunamente parallelato, consente la costruzione di apparati fino a 2,4 KWatt rms. Il modulo utilizza transistor LDMOS a 50 Volt e grazie alla sua linearità viene caratterizzato su tutta la banda UHF consentendone l'utilizzo in qualsiasi sezione di amplificazione. Ogni modulo viene alimentato singolarmente da un alimentatore che, in caso di guasto sull'alimentazione di un'altro modulo, ne gestisce la completa ridondanza.

OPTIONS

- DUAL-DRIVE configuration with automatic change over
- DVB-S/S2 Multistream receiver board
- Power feed in several configuration
- Rack cabinets
- GPS antenna kit
- RF filter & Combiner
- GSM Modem kit

This new family of Eurotek products introduces a new concept of scalability and modularity applied to medium and high power transmitters. The use of a single power module 150W rms, suitably connected in parallel, allows the construction of apparatuses up to 2.4W. The module uses a 50 Volt LDMOS transistor and thanks to its linearity is characterized over the entire UHF band allowing its use in any section of amplification. Each module is individually powered by a power supply which, in case of fault on the power of another module, manages the complete redundancy.

BENEFITS AND KEY FEATURES

- Alimentatore hot-swap ad alta efficienza con correzione del fattore di potenza
- Ridondanza di alimentazione
- Modulo amplificatore ed alimentatore univoci da 150 W a 2,4 Kw
- Modulo amplificatore caratterizzato su tutta la banda senza necessità di tarature
- Modulo amplificatore gestito da microprocessore ad alta velocità
- Gestione della potenza in funzione dei guasti sugli alimentatori
- Sostituzione hot-swap dell'amplificatore in 60 secondi
- Sostituzione hot-swap della ventola in 10 secondi
- Gestione allarmi totalmente asservita al Mainframe
- Configurazione semplificata per sistemi multicanale (4 canali da 150 W in 3+1 RU)
- Hot-swap power supply with high efficiency and power factor correction
- Redundant power supply
- Same Amplifier module and power supply from 150 W to 2,4 Kw
- Characterised Amplifier module full band without tuning
- Amplifier Module managed by High speed microprocessor
- Power managing based on power supply faults
- Hot-swap amplifier module replacement on 60 seconds
- Hot-swap fan module replacement on 10 seconds
- Alarm management related on the Mainframe (EK-MFR/2)
- Simplified configuration for multichannel system (4 CH 150 W channel on 3+1 RU)

SUB SYSTEMS



EXCITER



150 W RMS
UHF MODULE



POWER
SUPPLY



FAN



SUB RACK 19" 3U

TECHNICAL FEATURES

POWER AMPLIFIER SECTION

POWER OUT*	150 Watt	300 Watt	600 Watt	1200 Watt	2400 Watt
GAIN	57 dB	56,5 dB	56 dB	55,5 dB	55 dB
VOLTAGE SUPPLY	100÷240 Vac	100÷240 Vac	100÷240 Vac Mono Trifase + Neutro	100÷240 Vac Trifase + Neutro	100÷240 Vac Trifase + Neutro
POWER CONSUMPTION (W)**	630÷840	1260÷1680	2520÷3360	5040÷6720	10080÷13440
EFFICIENCY	24÷18 %				
OPERATING TEMP.	0÷45°C	0÷45°C	0÷45°C	0÷45°C	0÷45°C

*POWER OUT LEVEL BEFORE CHANNEL FILTER

**POWER CONSUMPTION: EXCITER SECTION EXCLUDED

SYSTEM FEATURES



- SCALABLE ARCHITECTURE FROM 150 WATT TO 2.4 KWATT
- MULTISTANDARD & MULTIMODE TRANSMITTERS DVB-T/T2, ISDB-T, ATSC, DUAL CAST
- FREQUENCY AGILE EXCITER 30÷875 MHZ
- ADAPTIVE PRECORRECTION
- HIGH EFFICIENCY 50V LDMOS TECHNOLOGY
- SINGLE OR DUAL DRIVE VERSION
- 1+1, N+1 CONFIGURATIONS
- USER FRIENDLY LOCAL AND REMOTE MANAGEMENT
- HOT-SWAP REDUNDANT POWER SUPPLY WITH HIGH EFFICIENCY & POWER FACTOR CORRECTION
- HOT-SWAP AMPLIFIER MODULE REPLACE