



KRON

DVB-T/T2 UHF/VHF Transmitter



KRON transmitter system family is the outstanding, latest-generation Neetra multi-standard platform for the transmission of a Digital TV signal up to a power of 1kW_{rms} in a nice looking equipment.

The **KRON** transmitter system platform is available in the 1000W, 800W, 500W, 400W (in rack version), 250W, 100W, 50W, 25W and 5W RMS versions in a compact 2U/3U case or in a solid case when the equipment is requested with the integrated UHF or VHF band-pass output filter.

KRON transmitter system is conceived to support DVB-T/T2, ATSC, ISDB-T/Tb, DTMB, including the top class, user friendly Linear and Non-Linear Digital Precorrection functionality.

Optionally a high-end Digital Adaptive Predistortion (DAP) engine allows any Digital Transmitter to be operated at its maximum possible power level and, at the same time, widely exceeding the minimum requirements of the official recommendations.

With DAP, the transmitter output is constantly monitored and adjusted to guarantee the maxi-

mum coverage in any operating condition. An optional embedded GPS receiver allows perfect SFN operation for the standards supporting single frequency network modes.

Using an optional board, a powerful and appealing Web GUI, together with a robust SNMP control support, allow easy access to the exciter's control system by any wired or wireless network connection and a standard web browser over a PC, laptop, netbook or smartphone.

Main characteristics

- DVB-T/T2, ATSC, ISDB-T/Tb, DTMB
- Dual cast DVB-T/T2-PAL Option
- Digital Precorrector (Linear & Non Linear)
- Top-accuracy SFN Operation
- 1000W, 800W, 500W, 400W, 250W, 100W 50W, 25W and 5W_{rms} output powers
- Available in dual mode DVB-T and DVB-T2
- Digital Adaptive Precorrector
- Embedded GPS Receiver
- GbE input for ASI over IP
- Remote Control: WEB Server, SNMP, Ethernet, GSM and PSTN
- Integrated UHF or VHF Output Band-pass Filter

KRON DVB-T/T2 UHF/VHF Transmitter

Technical characteristics

Transmitter Type:	KRON1000	KRON800	KRON500	KRON400
Amplifier	FPA2X4U	FPA2X4U	FPAIX4U	FPAIX4U
Exciter	KRON25	KRON25	KRON25	KRON25
Output Power [Wrms]	1000	800	500	400
Frequency Range [Mhz]	470 - 860	470 - 860	470 - 860	470 - 860
Amplification Class	AB	AB	AB	AB
Gain [dB]	18dB (±1.0dB)	18dB (±1.0dB)	18dB (±1.0dB)	18dB (±1.0dB)
Remote Control Interfaces	Rs485, USB	Rs485, USB	Rs485, USB	Rs485, USB
Power Supply Voltage	3P+N 400V ±15%	3P+N 400V ±15%	230VAC ±15%	230VAC ±15%
Power Supply Frequency	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Input Connector	N Female	N Female	N Female	N Female
Output Connector	EIA 1+5/8"	EIA 1+5/8"	EIA 7/8"	EIA 7/8"
Power Consumption [kVA]	5.2 - 7.4	4.7 - 6.8	3.2	2.8
Rack	1 Rack/28U	1 Rack/28U	1 Rack/20U	1 Rack/20U
Airflow [m³/h]	3000	3000	1800	1800
Weight [kg]	265	265	105	105
Temperature [°C]	-5 to +45	-5 to +45	-5 to +45	-5 to +45

Transmitter Type:	KRON250	KRON100	KRON50	KRON25
Amplifier	FPAIX4U	-	-	-
Exciter	KRON25	KRON100	KRON50	KRON25
Output Power [Wrms]	250	100	50	25
Frequency Range [Mhz]	470 - 860	470 - 860	470 - 860	470 - 860
Amplification Class	AB	AB	AB	AB
Gain [dB]	18dB (±1.0dB)	-	-	-
Remote Control Interfaces	Rs485, USB	Rs485, USB	Rs485, USB	Rs485, USB
Power Supply Voltage	230VAC ±15%	230VAC ±15%	230VAC ±15%	230VAC ±15%
Power Supply Frequency	50 - 60Hz	50 - 60Hz	50 - 60Hz	50 - 60Hz
Power Factor	> 0.98	> 0.98	> 0.98	> 0.98
Input Connector	N Female	N Female	N Female	N Female
Output Connector	EIA 7/8"	N Female	N Female	N Female
Power Consumption [kVA]	1.7	700	350	200
Rack	1 Rack/20U	4U	3U	3U
Airflow [m³/h]	300	-	-	-
Weight [kg]	90	17	14	14
Temperature [°C]	-5 to +45	-5 to +45	-5 to +45	-5 to +45

Transmitter Type:	KRON5
Amplifier	-
Exciter	KRON5
Output Power [Wrms]	5
Frequency Range [Mhz]	470 - 860
Amplification Class	AB
Gain [dB]	-
Remote Control Interfaces	Rs485, USB
Power Supply Voltage	230VAC ±15%
Power Supply Frequency	50 - 60Hz
Power Factor	> 0.98
Input Connector	N Female
Output Connector	N Female
Power Consumption [kVA]	150
Rack	2U
Airflow [m³/h]	-
Weight [kg]	8
Temperature [°C]	-5 to +45

Specifications, characteristics and front panel are subject to change without notice