

Axcera Innovator CX



SNMP
ATSC
ATSC MOBILE DTV
R E A D Y

UBS-Axcera designed the Innovator CX to provide broadcasters with a compact, affordable and high quality transmitter that will meet their needs like no other solution on the market. This advanced low power transmitter line uses the latest LD MOS devices for broadband operation across the entire UHF band, and can be configured as a DTV transmitter or regenerative translator. This allows users to minimize spare parts stock, which is especially important to multi-transmitter operators, and also enables simple and inexpensive channel changes.

Each very compact unit is completely contained within a single 3RU rackmount chassis, including exciter, up to 150W. Higher power levels are achieved through the addition of one or more of our compact rackmount power amplifiers.

Monitoring is simple with the traditional discrete interface or optional secure Web browser/SNMP interface, allowing users to access all transmitter operating and control parameters through any computer with Internet access.

Specifications

General Output Parameters

Standard	ATSC, A/53
Impedance	50 Ohms
Bandwidth	6 MHz
Test Signal	Internal PRBS-23
Frequency Range ²	470 to 806 MHz
Frequency Stability w/ GPS	0.2 ppm (max. 30 day variation) 0.001 ppm
Regulation of Output Power	3%
SNR	32 dB (typical), 30 dB (min.)
Input Parameters ^(Transmitter)	
Connector Type	BNC
Data Interface	
Input Rate	19.39 Mbps, 6 MHz Channel
Input Interface	SMPTE 310M (ASI optional)
Input Parameters ^(Translator)	
Frequency Range	54 to 862 MHz
Connector Type	BNC
Impedance	50 Ohms
Level	-78 to -8 dBm
White Noise Threshold of Errors	Better than 15.5 dB
Equalization Range	Better than ±45 µsec

Options

- Main/Alternate with Auto Switch
- Dual Exciter/Controller with Auto Switch
- AC Surge Protector
- GPS Receiver
- Spare Parts Kit
- Climate Controlled Outdoor Enclosure
- Equipment Rack (Included with CU2TD and higher)
- ASI Input
- Output Coupler (Post-filter sample)
- Dual Power Supply (Model Specific)
- OTC (One Touch Correction)
- AXACT (Adaptive Correction)
- ATSC Mobile DTV (A/153)
- ATSC 3.0 Capable
- Web Interface
- SNMP Interface

¹ Other power levels available upon request
² Consult factory for other frequencies, voltages or altitudes
³ Rackmount chassis are 19"(48 cm) wide, 25"(63 cm) deep.
 Some dimensions do not include output filter. Consult UBS-Axcera for filter dimensions

Model Information

Model Numbers	CU0TD-1	CU0TD-2	CU0TD-3	CU0TD-4	CU0TD-5	CU1TD-1	CU1TD-2	CU1TD-3	CU2TD	CU3TD	CU4TD
	CU0RD-1	CU0RD-2	CU0RD-3	CU0RD-4	CU0RD-5	CU1RD-1	CU1RD-2	CU1RD-3	CU2RD	CU3RD	CU4RD
Power Output (measured after mask filter)	5W	30W	50W	100W	150W	250W	400W	750W	1.5kW	2.5kW	3.75kW
Output Connector	N-Female					7-16 DIN			7/8 EIA	1 5/8 EIA	
Input Power											
Line Voltage	115V/230V+10%/-15%				230V+10%/-15%						
Power Requirements	Single Phase, 50 or 60 Hz										
Size (H x W x D) ³											
Inches	3RU					9RU			55 x 22 x 34	76 x 22 x 34	
Centimeters									140 x 56 x 86	193 x 56 x 86	
Weight (lbs/kg)	21/11	30/14	35/16	38/17	38/17	110/50	110/50	150/68	480/218	650/295	770/350
Maximum Altitude ²	8500 ft. (2600m) AMSL										
Operational Temp. Range	0 to +50°C, derate 2°C/1000 ft.										
Operational Humidity Range	0% to 95% non-condensing										



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