

100 W
AST 100



COMPACT
AIR COOLED



HIGH
EFFICIENCY



SNMP
SIMPLE NETWORK
MANAGEMENT PROTOCOL



HOT PLUG-IN
POWER SUPPLY / PSU

The COLOET AST FM transmitter line is a state-of-the-art heavy-duty, FM low power equipment featuring high efficiency technology. It is a broadband agile 88-108 MHz, compact design transmitter 1RU and 2RU with an output power from 100 W to over 1 k W. It includes an MPX input and remote control via SNMP and WEB pages and TLC/TLS.

The AST FM transmitter line is designed to fulfill the requests of those remote stations in need of a heavy-duty, cost-effective transmitter design.



FRONT VIEW



REAR VIEW

- Frequency Agile Broadband 88-108 MHz
- Modular and compact design: up to 250 W in 1 RU.
- Overall efficiency more than 70%
- MPX Input
- Optional Stereocoder (L&R), AES EBU inputs
- Optional Dynamic RDS coding embedded
- Ultra High signal to noise ratio, extremely low distortion.
- User friendly GUI.
- Remote control via SNMP, WEB pages, TLC/TLS

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TECHNICAL FEATURES:	
Working bandwidth:	87,5 ÷ 108 MHz
Frequency stability:	± 1 ppm
Output power:	100 W
Output connector	N
Harmonics Attenuation:	≥ 80 dB
Frequency Deviation:	$\Delta F \pm 75 \text{ KHz} \dots \pm 100 \text{ KHz}$
MPX Input:	Band 40 Hz ... 100 KHz impedance > 2K Ω or 600 Ω Input level adjustable from -6dBu up to +6dBu
MONO Input: (L input is the default input, it can be set by the web pages on L or R input)	40 Hz ... 15 KHz impedance > 2K Ω or 600 Ω Pre-emphasis 0/50/75 μ s Level from -6dBu ... up to +6dBu
AUDIO AUX Input:	from 21 KHz ... up to 100 KHz Input level adjustable from -6dBu up to +6dBu
L and R Inputs:	Stereocoder Option. Impedance > 2K Ω o 600 Ω pre- emphasis 0/50/75 μ s Input level adjustable from -12dBu up to +12dBu Clipper Δ f: ON/OFF
AES/EBU Input:	Impedance 110 ohm Sensitivity from 0dBfs up to - 24dBfs
RDS Input:	Optional dynamic RDS encoder
STEREO OUTPUT SPECIFICATIONS with L/R and MPX INPUT	
Amplitude/frequency:	< ± 0.15 dB (30 Hz – 15 KHz)
Total Harmonic Distortion +Noise:	0.03% @ 400Hz
AM Noise: (MPX Input)	≤ - 60dB ref. amplitude modulation 100% of the carrier
Synchronous AM: (MPX Input)	With f = 400 Hz and $\Delta f \pm 75 \text{ KHz}$ ≤ - 50 dB ref. amplitude modulation 100% of the carrier.
S/N:	> 70 dB (f=400 Hz with $\Delta f \pm 75 \text{ kHz}$)
Linear Crosstalk: (L/R Input)	< - 55 dB (40 Hz - 15 kHz) (Measured with $\Delta f \pm 75 \text{ kHz}$)"
CONTROL AND MONITORING	
Local	Graphic display with push buttons
Remote	SNMP / WEB pages/ TLS-TLC *GSM/UMTS/GPRS as option
GENERAL SPECIFICATIONS	
Mechanical dimensions	W x H x D: 483 mm x 45 mm (1RU) x 350 mm
Weight	5 kg
Power Supply	90-264 VAC with manual switch
Efficiency	> 45%
Environmental conditions	
Max altitude	4000 m a.s.l.
Working temperature range	-5 ÷ 45°C
Max relative humidity	95% @ 35°C non condensing
Features and specifications subject to change without notice	