

# 1000 W AST 1000



COMPACT  
AIR COOLED



HIGH  
EFFICIENCY



SNMP  
SIMPLE NETWORK  
MANAGEMENT PROTOCOL



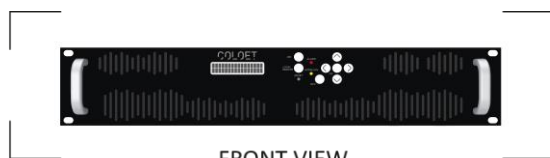
HOT PLUG-IN  
POWER SUPPLY / PSU

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

<b>TECHNICAL FEATURES:</b>	
<b>Working bandwidth:</b>	87,5 ÷ 108 MHz
<b>Frequency stability:</b>	± 1 ppm
<b>Output power:</b>	1000 W
<b>Output connector</b>	7/16
<b>Harmonics Attenuation:</b>	≥ 80 dB
<b>Frequency Deviation:</b>	ΔF ± 75 KHz ... ± 100 KHz
<b>MPX Input:</b>	Band 40 Hz ... 100 KHz impedance > 2KΩ or 600Ω Input level adjustable from -6dBu up to +6dBu
<b>MONO Input:</b> (L input is the default input, it can be set by the web pages on L or R input)	40 Hz ... 15 KHz impedance > 2KΩ or 600Ω Pre-emphasis 0/50/75μs Level from -6dBu ... up to +6dBu
<b>AUDIO AUX Input:</b>	from 21 KHz ... up to 100 KHz Input level adjustable from -6dBu up to +6dBu
<b>L and R Inputs:</b>	Stereocoder Option. Impedance > 2KΩ o 600Ω pre- emphasis 0/50/75 μs Input level adjustable from -12dBu up to +12dBu Clipper Δf: ON/OFF
<b>AES/EBU Input:</b>	Impedance 110 ohm Sensitivity from 0dBfs up to - 24dBfs
<b>RDS Input:</b>	Optional dynamic RDS encoder
<b>STEREO OUTPUT SPECIFICATIONS with L/R and MPX INPUT</b>	
<b>Amplitude/frequency:</b>	< ± 0.15 dB (30 Hz – 15 KHz)
<b>Total Harmonic Distortion +Noise:</b>	0.03% @ 400Hz
<b>AM Noise:</b> (MPX Input)	≤ - 60dB ref. amplitude modulation 100% of the carrier
<b>Synchronous AM:</b> (MPX Input)	With f = 400 Hz and Δf ± 75 KHz ≤ - 50 dB ref. amplitude modulation 100% of the carrier.
<b>S/N:</b>	> 70 dB (f=400 Hz with Δf ± 75 kHz)
<b>Linear Crosstalk:</b> (L/R Input)	< - 55 dB (40 Hz - 15 kHz ) (Measured with Δf ± 75 kHz)"
<b>CONTROL AND MONITORING</b>	
<b>Local</b>	Graphic display with push buttons
<b>Remote</b>	SNMP / WEB pages/ TLS-TLC *GSM/UMTS/GPRS as option
<b>GENERAL SPECIFICATIONS</b>	
<b>Mechanical dimensions</b>	W x H x D: 483 mm x 45 mm (2RU) x 500 mm
<b>Weight</b>	8 kg
<b>Power Supply</b>	90-264 VAC, Universal
<b>Efficiency</b>	> 75%
<b>Environmental conditions</b>	
<b>Max altitude</b>	4000 m a.s.l.
<b>Working temperature range</b>	-5 ÷ 45°C
<b>Max relative humidity</b>	95% @ 35°C non condensing
Features and specifications subject to change without notice	