

CSE 2000 Modules FM

Type	CHA 2000 A	CHA 2000 U	CHV 2000 U	CHD 2022 U
Order No.	960 905-101	960 906-101	960 904-101	940 161-101



Modules for processing of analog and digital signals to FM



CHA 2000 A

Analog SAT twin module with FM modulator

- Processes analog and digital subcarriers (ADR)
- Generates RDS signal
- External audio signal feed with CHE 2000 D possible

CHA 2000 U

Twin module with FM converter

- Common channel service possible
- Automatic gain control (AGC)

CHV 2000 U

FM amplifier module

- Six configurable rejection filters
- Two rejection filters can be set to the same frequency to increase attenuation

CHD 2022 U

Digital SAT twin module with FM modulator

Input				
Processed channels	2 (Twin)	2 (Twin)	-	2 (Twin)
Input frequency range	950-2150 MHz	87.5-108 MHz	87.5-108 MHz	950-2150 MHz
AFC				±4 MHz
Input level	47-70 dB μ V	53-99 dB μ V		47-70 dB μ V
Modulation				QPSK
Symbol rate				1-45 MS/s
RF connections	F (75 Ω)	F (75 Ω)	F (75 Ω)	F (75 Ω)
Audio / Video				
Analog subcarrier	6-9 MHz			
ADR subcarrier	0.18-9 MHz			
Gain			34 dB	
Noise figure			3 dB	
Reduction per trap			14 dB	
Output				
Output level	91 dB μ V	91 dB μ V	91 dB μ V	91 dB μ V
Output frequency range	87.5-108 MHz	87.5-108 MHz	87.5-108 MHz	87.5-108 MHz
Adjustable attenuator	0 ... 20 dB	0 ... 20 dB	0 ... 20 dB	0 ... 20 dB
RF connections	F (75 Ω)	F (75 Ω)	F (75 Ω)	F (75 Ω)
Operating conditions				
Power consumption	8 W	1.9 W	1.5 W	10 W
Operating temperature	0° to 50° C	0° to 50° C	0° to 50° C	0° to 50° C
Packing unit				
Box	1 unit	1 unit	1 unit	1 unit
Included in delivery	1 HF cable for connecting the outputs	1 cover (slot plate) with 2 F connections 1 HF cable for connecting the outputs	1 cover (slot plate) with 1 F connection 1 HF cable for connecting the outputs	1 HF cable for connecting the outputs