



EFM-100

FM radio processor

Art.no: 109100.01

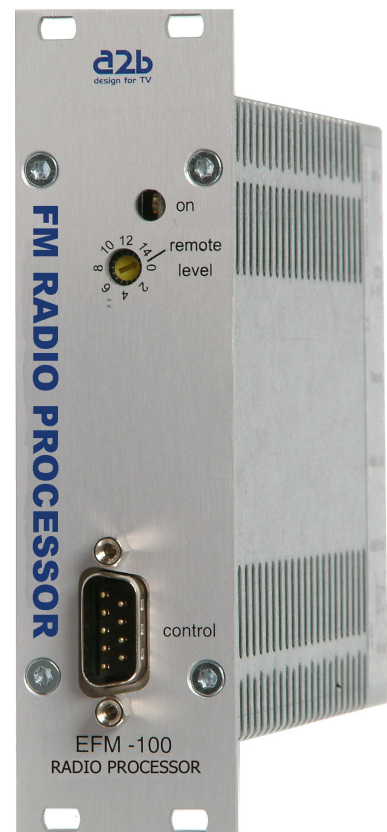
PRODUCT INFORMATION

EFM-100

The EFM-100 is an FM radio processor for operation in SMATV and Cable TV head ends. The EFM-100 has multiple functionalities, and operates as an FM amplifier, an FM modulator for external sources, an FM to base band converter, or as an FM channel processor.

Features:

- High quality professional FM radio processor
- FM Tuner
- FM Modulator
- FM Amplifier
- Video OSD (On Screen Display out)
- For operation in SMATV and Cable TV head ends
- Adjustable output level
- Frequency range 76-108 MHz
- RDS encoder
- Settings via PC or PALM PDA (RS-232)
- Low power consumption



design for TV

EFM-100 FM radio processor

TECHNICAL SPECIFICATION

(This specification may be subject to change without notice).

Connectors and Interfaces

Control connector	9pin male, D-sub
Video connector	Phono female (yellow)
Audio connectors	Phono female (Left white and Right red)
Antenna input connector	F female
RF output connector	F female
LED Indicator lights	Power on
Front panel controls	Output level in 15 steps or remote
Remote controls	Frequency settings, RF output level, choice of functionality

Tuner

Input frequency	76-108 MHz (in 50 kHz steps)
Input level	30 to 115 dBuV (typical 60dBuV)
Stereo separation	> 25 dB
Audio SNR	42 dB
THD @ 1kHz	< 2%
Audio frequency range	20 – 15000 Hz
Audio output level	0,77 V rms
Audio output impedance	< 100 Ω
Audio output load	> 10 k Ω
Audio mode	Stereo or Mono

Antenna input

Input connector	Type F female
Impedance	75 Ω nominal

Video Output (TV OSD)

Impedance	75 Ω
Output level	1 V p-p nominal
Output signal	Black picture with OSD (P1 .. P7)

Modulator

Output frequency	76-108 MHz (in 50 kHz steps)
Max output level	93 dBuV
Attenuation	0 to -6dB in 4 steps
Deviation	\pm 75 kHz
Pre-emphasis	Disabled, 50 μ s, 75 μ s
THD @ 1kHz \pm 75kHz dev.	< 2%
Audio SNR	55 dB
Audio input level	0,77 V rms alt. -9dB
Audio input impedance	> 10 k Ω
Spurious signals suppression	> 60 dB
Audio mode	Stereo or Mono

Miscellaneous

Power supply	7.5 VDC nom. (6-9V)
Power consumption	< 5 W
Dimensions	165x105x20 mm (excl. connectors),
Weight	Approx. 330 g
Controller	Palm PDA or PC (software included)
Operating temperature	0 to +50°C

Amplifier

Max input level	73 dBuV
Gain	Typ. 35 dB
Spurious signals suppression	> 60 dB

RF output

Impedance	75 Ω nominal
Attenuation	Variable 0 to -31 dB in 1dB steps
Band pass filter	76 – 108 MHz

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