



**50W, S-BAND INDOOR
SOLID STATE POWER AMPLIFIER**

- **CLASS “AB” OPERATION**
- **STANDARD 19” RACKMOUNT OPERATION**
- **FULL REMOTE M&C VIA ETHERNET**
- **HIGH RELIABILITY**

This solid state power amplifier is intended for use in satellite communications systems as uplink SSPA. The SSPA can be fully remotely monitored and controlled via the built-in Ethernet interface.

For higher flexibility the output VSWR alarm and shut down threshold can be adjusted in order to fit better the local conditions.

Electrical characteristics:

Operation Frequency Band	2020 – 2120 MHz
RF Output Power	47 dBm @ P _{1dB} min
Gain	75 dB min.
Gain Slope	± 0.1 dB / 10 MHz max.
Gain Flatness	± 0.5 dB
Gain adjustment range	min. 20 dB, typ. 25 dB
Gain adjustment step	0.1 dB typ
Output Power Stability vs. Temp (ALC ON)	± 1 dB (+5°C to +40°C) max.
ALC Control Range	20 dB min. in 0.5 dB step
Input VSWR	< 1.3:1
Output VSWR	< 1.4:1
AM/PM Conversion @ P _{1dB}	3°/dB max.
Output Noise in 2.2-2.3 GHz	< -125 dBm/Hz with filter
Harmonics @ P _{1dB-3dB}	< - 60 dBc
Spurious	< - 80 dBc
Noise Figure	< 3 dB
Intermodulation distortion @ P _{out} =47 dBm	< - 25 dBc typ.
Output Sample port	-50 dBc
RF input /output / sample connectors	N-female
Remote M&C interface	Ethernet
Operating Temperature Range	+5°C to +40°C (ambient)
Power supply	110-240 V AC, 47-63 Hz
Power consumption	300 W typ.

Specifications are subject to change without notice.

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Control software summary screen (for reference only):



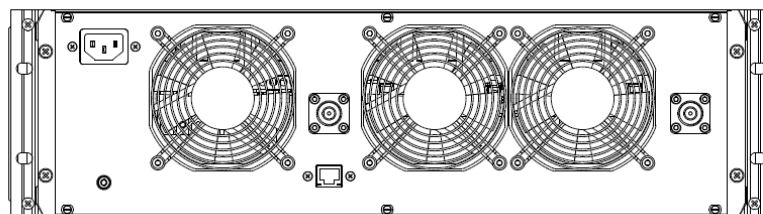
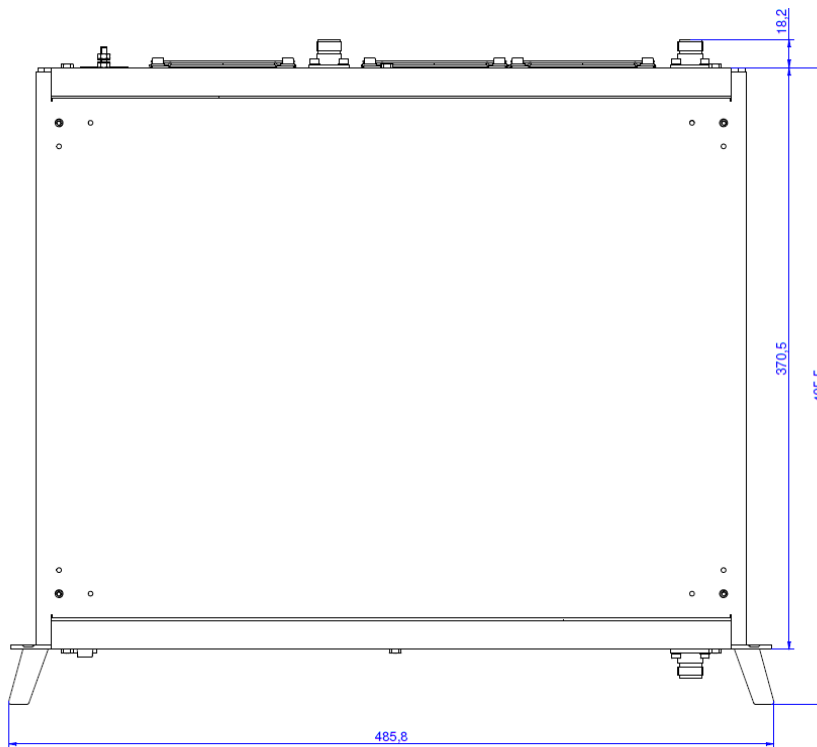
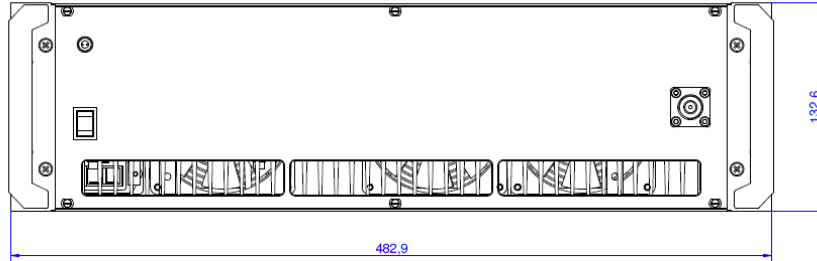
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Outline dimensions (mm):



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Product photo (for referency only):



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