

Navtech Systems RF Products

GSM Amplifier/Repeater GSM-305



The SIGNAL GSM-305 repeater amplifies the whole GSM+EGSM frequency range and complies with ETSI 300 609-4 standard for CE declaration.

Distinguishing features:

- Support for GSM networks (GSM+EGSM) - 880-960 MHz;
- Compliance with ETSI 300 609-4
- AGC (ALC) - automatic gain/level control;
- MGC - manual gain control (attenuator);
- Gain suitable for the coverage area;
- Indoor coverage area up to 300 m²;
- Easy installation (Plug and Play);

Extended operating band. The GSM repeater amplifies signals of the "old" GSM band and new EGSM band that has been introduced to increase the number of operators. The total frequency range of the device covers 880-915 MHz and 925-960 MHz bands.

ALC function. Automatic level control automatically adjusts gain of the device within range of 20 dB. It will not allow to overdrive the internal amplifier in the case of input signal fluctuations.

Adjustable input attenuation The built-in attenuator allows to adjust the optimum level of the input signal (attenuation 0-31 dB, step 1 dB).



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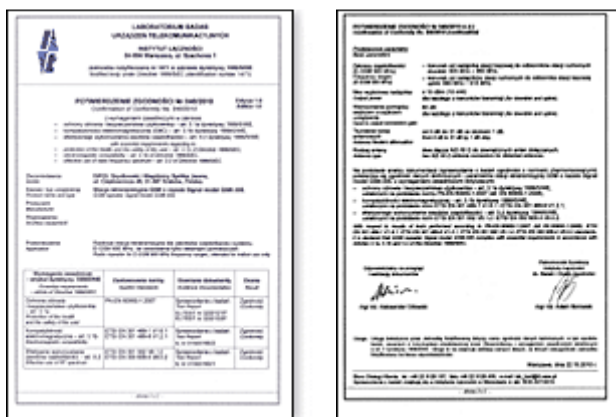
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The notified body under Directive 1999/5/EC (identification number 1471) - the National Institute of Telecommunications in Warsaw, Poland - has issued Confirmation of Conformity with essential requirements of applicable European Directives.



The Confirmation of Conformity issued by the National Institute of Telecommunications in Warsaw, Poland



Tests conducted in November 2010 by Centralne Laboratorium Badan Technicznych (Central Laboratory of Technical Research), at the request of the Office of Electronic Communications in Poland, confirmed that the model SIGNAL GSM-305 meets the requirements of PN-ETSI EN 300 609-4 v.8.0.2:2005 standard in the scope: spurious emissions, transmitter intermodulation attenuation, gain outside the operating band.

Specification:-

Name	Repeater SIGNAL GSM-305	Indoor coverage area [m ²]	up to 300
Code	A6765	Impedance [Ω]	50
Operating bands [MHz]	880-915 925-960 GSM+EGSM	Power	100-240 VAC (2 A) 9 VDC (3 A)
Output power [dBm]	10	Certificates	CE (ETSI 300 609 -4), RoHS
Gain [dB]	60/60	Dimensions [mm]	218x155x65
Max group delay [μs]	0.5	Antenna connectors (for outdoor/indoor antenna)	N-f/N-f
Input attenuation (adj. manually) [dB]	0-31 (step 1)	AGC range [dB]	up to 20



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