

**GSM BANDSELECTIVE  
IN-TRAIN REPEATER**

- **1 W ALC POWER LEVEL**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **EDGE COMPATIBLE**

This repeater is intended to use in 900 MHz in-train GSM systems. It is a compact and reliable unit and it is especially advantageous to provide proper coverage for the passengers who are traveling by train. The adaptive gain function helps to reduce the desensitization of base stations.

RS232 and a LED diode helps locally to supervise the unit. It is a cost effective solution to cover the wagons and can be installed easily and optional can be monitored and set by remote control software.

**Electrical characteristics:**

Frequency Band Uplink	890 – 915 MHz
Frequency Band Downlink	935 – 960 MHz
Frequency Bandwidth (Up/Downlink)	25 MHz (*)
Mode of Operation	band selective duplex
Max ALC level @ Uplink	2 W @ factory set 27dBm
Max ALC level @ Downlink	1 W @ factory set 25dBm
ICP3 Uplink	+ 56 dBm typ @ tested 2x24dBm S.C.L.
ICP3 Downlink	+ 51 dBm typ @ tested 2x20dBm S.C.L.
Nominal Gain	70 dB (**)
Gain Ripple	± 1 dB typical ± 2 dB max.
Gain Setting	70 to 40 dB in 1 dB steps (***)
ALC range	> 25 dB typ.
Input Noise Figure	< 6 dB typ. @ max gain
Harmonics	According to the ETSI regulation < - 36 dBm
Spurious Radiation	According to the ETSI regulation < - 36 dBm
Local Leakage	According to the ETSI regulation < - 36 dBm
Group delay	5 usec. typ
RF Connectors	N – female
Supply Voltage	24 V
Power Consumption	80 W typ.
Airflow through chassis	50 m3 / h
Weight	12 kg
Operating temperature range	- 25 to + 50 °C
RS232 local control / Remote control / SMS	yes / optional / optional
Application	In Train

(\*) Center frequency and bandwidth can be specified in the whole GSM band.

(\*\*) Gain = 80 dB at customer request.

(\*\*\*) Gain Setting = 80 to 50 dB in 1 dB steps at customer request.

Specifications are subject to change without notice.

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### Outline dimensions (mm):

