

**UMTS BANDSELECTIVE
IN-TRAIN REPEATER**

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

This repeater is intended to use in UMTS band in-train 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	1920 – 1965 MHz
Frequency Band Downlink	2110 – 2155 MHz
Frequency Bandwidth (Up/Downlink)	45 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
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	< 7 dB typ. @ max gain
EVM	4 % typ. (ETSI regulation < 12%)
PKCDE	< -45 dB typ. (ETSI regulation < -35dB)
ACRR	40 dBc typ. (ETSI regulation > 20dB)
Harmonics	According to the ETSI regulation
Spurious Radiation	According to the ETSI regulation
Local Leakage	According to the ETSI regulation
Group delay	5 usec. typ
RF Connectors	N – female
Supply Voltage	24V DC
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 UMTS 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.

**UMTS BANDSELECTIVE
IN-TRAIN REPEATER**

Outline dimensions (mm):

