KON-TR-01

IQRF range check adapter

for DK-EVAL-04

User's Guide





Description

KON-TR-01 is an adapter to check RF range of TR modules in SIM format with built-in LDO voltage regulator using the DK-EVAL-04 development kit.

DK-EVAL-04 is optimized for space but not for the range. Thus, the range is shortened due to compressed PCB layout for ~ 30% when used without KON-TR-01.

This kit is redesigned and renamed from the former adapter KON-EXT-01.



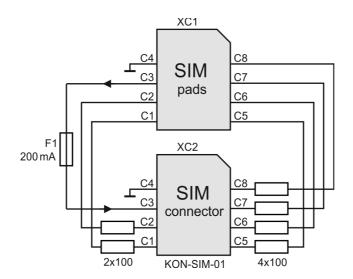
Applications

- For range check using DK-EVAL-04
- For TR modules compatible with the SIM connector, with built-in LDO voltage regulator (e.g. TR-52B, TR-53B or TR-52D)

Key features

- To be plugged in DK-EVAL-04 via SIM connector
- Series protection resistors on I/O pins
- · Resettable fuse for power supply

Schematics





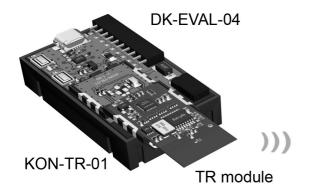
Hardware

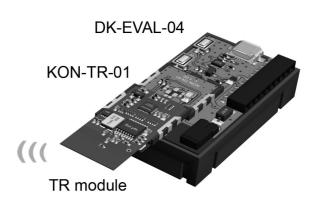
Connectors

- XC1: PCB edge connector to be plugged in the DK-EVAL-04 SIM socket
- XC2: SIM connector for TR module

Application

Typical usage





Tip: Use basic example E09-LINK from IQRF Startup package for range check.

Tip: Use DK-EVAL-04 with and without adapter KON-TR-01 to observe the difference in range due to PCB layout.

Caution: The TR module can be plugged / unplugged into / from the SIM connector while powered off only.

Caution: It is not allowed to use this adapter for SMT TR modules like TR-54D to avoid short circuit due to metallic holder of the SIM connector.

Caution: It is not allowed to use the above mentioned configuration for TR modules without LDO voltage regulator (e.g. TR-55D).

Tip: For TR modules without LDO voltage regulator (e.g. TR-55D) use KON-TR-01L adapter instead to this.

Product information

Pack list

KON-TR-01 IQRF range check adapter

Recommended options

DK-EVAL-04 IQRF development kit

KON-TR-01L Adapter for TR modules without LDO voltage regulator

Ordering code

KON-TR-01 IQRF range check adapter

Document history

130114 Redesigned from KON-EXT-01
 120725 First release (KON-EXT-01)



Sales and Service

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Partners and distribution

Please visit www.iqrf.org/partners

Quality management

ISO 9001: 2009 certified

Complies with ETSI directives EN 30279 V.1.2.1:99, ETS 30683:97, ETSI EN 301489-1:00, ETSI EN 300220-1:00, ETSI EN 300390-2V.1.1.1:00



Complies with FCC directives FCC CFR, Title 47, Part 15, Section 15.209, FCC CFR, Title 47, Part 15, Section 15.249 Complies with Directive 2002/95/EC (RoHS)

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