

**PIM RACK ANALYZER  
SWITCH MATRIX**

**IM-R-MPX-6Way**

**Main Features**

- Up to 6 filters connected to one Base Unit (optional Switch Matrix 11-way)
- Plug and Play installation
- Intuitive Software Configuration



**Product Description**

This Switch Matrix cartridge is designed to be installed into the Base Unit IM-R-BU-xxxx. The calibration data is stored on Switch Matrix and loaded automatically at installation. After connection and configuration, the user can select one of up to 6 (or 11) Filters via software menu (Optional each Signal to different Filter for flexible configurations). Calibration data and frequency setup of the selected filters are loaded automatically.

**General**

<b>Dimensions</b>	347 x 91 x 100 mm (WxHxD)
<b>Weight</b>	1 kg
<b>Frequency</b>	600 – 2800 MHz
<b>RF Ports</b>	
<b>TX &amp; RX Switch</b>	SMA-Type, 150W max.
<b>FWD &amp; REFL Switch</b>	SMP-Type
<b>Interface Ports</b>	Proprietary SLC and Rosenberger HSD (green)

**Content**

<b>RF Cables</b>	
<b>RX Path</b>	IM-R-MPX-W120 (SMA to SMA preformed)
<b>RX Path</b>	IM-R-MPX-W121 & -W122 (SMA to SMP preformed)
<b>TX Path</b>	IM-R-MPX-W123 & -W124 (N to SMA preformed)
<b>Relay Interconnection</b> (only 11-Way)	IM-R-MPX-W125 – -W127 (SMA to SMA preformed)
<b>Bus Cable</b>	LD5-101-0550-E-C (550 mm, HSD blue to HSD green)

**Useful Accessory**

<b>Torque Wrench</b>	
<b>SMA Connector</b>	32W100-032 (0.9 Nm, 8 mm angled fork)
<b>N Connector</b>	53W010-000 (1.1 Nm, 18 mm)

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**IM-R-MPX-6Way**

**Part Number designation**

**IM-R-xx-xxxx**

- **IM:** InterModulaton Analyzers
- **R:** Rack Analyzer
- **BU:** **Base Unit**
  - 0727-80W: 700-2700MHz Broadband Power Amplifier & Receiver
  - 0722-150W: 700-2200MHz Broadband Power Amplifier & Receiver, high power output
  - 2127-150W: 2100-2700MHz Broadband Power Amplifier & Receiver, high power output
- **FI:** **Filter Insert**
  - 07/B12-14-R: LTE700LU (ETSI Band12 to 14)
  - 08/B20-R: DigDiv (ETSI Band20)
  - 08/B5-R: AMPS(CDMA 800) (ETSI Band5)
  - 09/B8-R: EGSM (ETSI Band8)
  - 18/B3-R: DCS (ETSI Band3)
  - 19/B2+4-R: PCS + AWS (ETSI Band2 & 4)
  - 21/B1-R: UMTS (ETSI Band1)
  - 26/B7-R: UMTS II / LTE II (ETSI Band7)
- **MPX:SwitchMatrix** (User replaceable)
  - 6way: Switch Matrix with 6 ports for up to 6 connected filter inserts
  - 11way: Switch Matrix with 11 ports for up to 11 connected filter inserts
- **HWO:** **HardWare Option**
  - ExtCtrl: External Safety Control (Disable Amplifiers with some door contact etc.)
- **SWO:** **SoftWare Option**
  - CPRI: Measure and Cancel PIM over CPRI Fiber interface
- **ACSRY:** **Accessory**
  - Fil: Air inlet dust filter 10 filter mats 420x370x8mm  
(Polyolefin, Filter class G2,  
Flammability class F1 DIN53438)

**Order Number Example**

IM-R-BU-0722-150W	Base unit with broadband amplifier 700 -2700 MHz, receiver, fiber CPRI
IM-R-MPX-6way	Switch Matrix with 6 ports for up to 6 connected filter inserts
IM-R-FI-07/B12-14-R	Filter Insert for LTE700 Lower and Upper band (ETSI Band12, 13 & 14)
IM-R-FI-09/B8-R	Filter Insert for EGSM900 (ETSI Band8) Reversed IM

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Kaindl B.	2018-10-17	Kaindl B.	2018-10-17	100	18-v002	Kaindl B.	2018-10-17
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