

**Main Features**

- Outstanding PIM Performance
- Field replaceable
  - Automatic detection in BaseUnit
  - Factory calibrated
- Portable with a rugged design
- Field replaceable Testport
  - 7/16 DIN and 4.3/10 DIN (opt)



**General**

**Dimensions**  
**Weight**  
**Internal Ports**  
**RF Port**

365 x 333 x 71 / 96 (LxWxH) depends on frequency band  
5 – 7 kg (depends on frequency band)  
5 x P-SMP, SLC landing socket  
Field replaceable Testport 7/16 DIN, 4.3/10 DIN (opt)

**Environmental**

**Operating Temperature Range**  
**Storage Temperature Range**  
**Relative Humidity**  
**Mechanical shock**

-10°C to + 40°C  
-20°C to +80°C  
5% to 95% RH non-condensing  
40G

**PIM SITE ANALYZER  $\alpha$   
BAND FILTER UNIT****IM-A-FI-xxxx****IM-A-FI-700/B12-14 (LTE700 LU)**

<b>ETSI Band</b>	B12, B13, B14
<b>Transmit Path</b>	
Range TX1	728 – 740 MHz
Range TX2	750 – 764 MHz
<b>Receive Path</b>	
Range B12 (700L)	698 – 716 MHz
Range B13+14 (700U)	776 – 798 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 96 (LxWxH)
<b>Weight</b>	7 kg

**IM-A-FI-800/B20 (DigDiv800)**

<b>ETSI Band</b>	B20
<b>Transmit Path</b>	
Range TX1	791 – 803 MHz
Range TX2	812 – 821 MHz
<b>Receive Path</b>	
Range	832 – 862 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 96 (LxWxH)
<b>Weight</b>	6.8 kg

**IM-A-FI-850/B5 (AMPS850)**

<b>ETSI Band</b>	B5
<b>Transmit Path</b>	
Range TX1	869 – 880 MHz
Range TX2	885 – 894 MHz
<b>Receive Path</b>	
Range	824 – 851 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 96 (LxWxH)
<b>Weight</b>	6.6 kg

**IM-A-FI-900/B8 (EGSM900)**

<b>ETSI Band</b>	B8
<b>Transmit Path</b>	
Range TX1	925 – 939 MHz
Range TX2	946 – 960 MHz
<b>Receive Path</b>	
Range	880 – 915 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 96 (LxWxH)
<b>Weight</b>	6.4 kg

**IM-A-FI-1800/B3 (DCS1800)**

<b>ETSI Band</b>	B3
<b>Transmit Path</b>	
Range TX1	1805 – 1840 MHz
Range TX2	1850 – 1880 MHz
<b>Receive Path</b>	
Range	1710 – 1785 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 96 (LxWxH)
<b>Weight</b>	7 kg

**IM-A-FI-1900/B2+4 (PCS/AWS1900)**

<b>ETSI Band</b>	B2, B4
<b>Transmit Path</b>	
Range TX1	1930 – 1950 MHz
Range TX2 (B2 PCS)	1970 – 1995 MHz
Range TX2 (B4 AWS)	1970 – 2155 MHz
<b>Receive Path</b>	
Range (B2 PCS)	1850 – 1910 MHz
Range (B4 AWS)	1710 – 1755 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 71 (LxWxH)
<b>Weight</b>	7 kg

**IM-A-FI-2100/B1 (UMTS2100)**

<b>ETSI Band</b>	B1
<b>Transmit Path</b>	
Range TX1	2110 – 2130 MHz
Range TX2	2150 – 2170 MHz
<b>Receive Path</b>	
Range	1920 – 2060 MHz
<b>Residual PIM</b>	-125 dBm (maximum), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 71 (LxWxH)
<b>Weight</b>	7 kg

**IM-A-FI-2600/B7 (LTE II 2600)**

<b>ETSI Band</b>	B7
<b>Transmit Path</b>	
Range TX1	2620 – 2637 MHz
Range TX2	2660 – 2695 MHz
<b>Receive Path</b>	
Range	2445 – 2590 MHz
<b>Residual PIM</b>	< -125 dBm (> 168 dBc), referred to 2 x +43 dBm
<b>Size</b>	365 x 333 x 71 (LxWxH)
<b>Weight</b>	5.0 kg

**Accessories**

	Part Number	Description
<b>Useful <math>\alpha</math> Accessories</b>	IM-A-ACSRy-Bag-BU	Carrying bag for Base Unit
	IM-A-ACSRy-Bag-ACSRy	Carrying bag for two Filters, Batteries, Jumper test cables and Tools
	IM-A-ACSRy-Bag-Trolley	Transportation Trolley for both accessory bags
	IM-A-ACSRy-Case-BU	Transportation case for Base Unit
<b><math>\alpha</math> Spare Parts</b>	60K408-800N1	7/16 Testport Saver for use on $\alpha$ Filter
	64K401-800B1	4.3/10 Testport Saver for use on $\alpha$ Filter
	IM-A-ACSRy-Bat	Battery Pack
<b>Low PIM Adaptors</b>	60S101-KIMN1	7/16 Male to 7/16 Female adapter
	60S101-SIMN1	7/16 Male to 7/16 Male adapter
	60K101-KIMN1	7/16 Female to 7/16 Female adapter
	60S153-KIMN1	7/16 Male to N Female adapter
	53S160-KIMN1	7/16 Female to N Male adapter
	60S164-K00N1	7/16 Male to 4.3/10 Female adapter
	60S164-S00N1	7/16 Male to 4.3/10 Male adapter
	60K164-S00N1	7/16 Female to 4.3/10 Male adapter
<b>PIM Standards</b>	60S110-KxxN1	-110dBm standard adapter (band specific) included with every filter unit
	xx: 07 LTE700; 08 DigDiv AMPS; 09 EGSM; 18 DCS; 19 PCS/AWS;	
	21 UMTS; 26 LTE2600; other frequencies on request	
<b>Low PIM Terminations</b>	60Z150-020	Low PIM termination (portable, with male & female ports)
	60Z150-012	Low PIM termination (Benchtop type)
<b>Tools</b>	60W000-002	32mm torque wrench
	53W010-000	18mm torque wrench
	99W057-000	Adjustable flat wrench
<b>Test Cables</b>	LC02-186-4000	Test Cable 7/16 male / 7/16 male 4.0m
	LC02-186-1500	Test Cable 7/16 male / 7/16 male 1.5m
	LC02-188-4000	Test Cable 7/16 male / N male 4.0m
	LC02-188-1500	Test Cable 7/16 male / N male 1.5m
	SLJ12SP-60M64M-2.0m-00	Test Cable 7/16 male / 4.3/10 male 2.0m
	SLJ12SP-64M64M-2.0m-00	Test Cable 4.3/10 male / 4.3/10 male 2.0m

**Part Number designation**

**IM-A-xx-xxxx**

- IM: InterModulaton Analyzers
- A: Site Analyzer Alpha
- BU: **Base Unit**
  - 0727: 700-2700MHz Broadband Power Amplifier & Receiver
  - BU: Battery Unit Battery Starter Kit with 3 Batteries & Charge cable
  - Bat: Spare Battery 99Wh (3pcs needed)
- FI: **Filter Insert**
  - 700/B12-14: LTE700LU (ETSI Band12 to 14)
  - 800/B20: DigDiv (ETSI Band20)
  - 850/B5: AMPS(CDMA 800) (ETSI Band5)
  - 900/B8: EGSM (ETSI Band8)
  - 1800/B3: DCS (ETSI Band3)
  - 1900/B2+4: PCS + AWS (ETSI Band2 & 4)
  - 2100/B1: UMTS(ETSI Band1)
  - 2600/B7: UMTS II / LTE II (ETSI Band7)
- SWO: **SoftWare Option**
  - CPRI: Measure and Cancel PIM over CPRI Fiber interface
- ACSRY: **Accessory**
  - Case-BU: Transport Case BaseUnit, Energy Supply, tbd (LxWxH)
  - Bag-BU: Transport Bag

**Order Number Example**

- IM-A-BU-0727 Base unit with broadband amplifier 700 -2700 MHz, receiver, fibre CPRI unit
- IM-A-BU-BU Battery Starter kit with Battery insert & 3 Batteries
- IM-A-FI-700/B12-14 Filter Insert for LTE700 Lower and Upper band (ETSI Band12, 13 & 14)
- IM-A-FI-900/B8 Filter Insert for EGSM900 (ETSI Band8)
- IM-A-ACSRY-Bag-BU Transport Bag for Base Unit

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.	2016-06-07	C .Entsfellner	2016-07-18	100	16-v002	Kaindl B.	2016-06-07
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