

TECHNICAL SPECIFICATIONS

SYSTEM - 1 PORT MODE	
Measurement method	Reverse (reflected) PIM, 3rd, 5th and 7th order.
Residual PIM	<-123dBm/-166dBc maximum (<-128dBm/-171dBc typical) @2x43dBm
Power per tone (adjustable)	0.5W to 20W (+27 to +43dBm in 1dB increments)

SYSTEM - 2 PORT MODE	
Measurement method	Reverse (reflected) PIM, 3rd, 5th and 7th order.
Cross band Residual PIM (*)	<-123dBm/-166dBc maximum (<-128dBm/-171dBc typical) @2x46dBm
Power per tone (adjustable)	1W to 40W (+30 to +46dBm in 1dB increments)

Note: (*) 25dB Port to Port isolation assumed

SYSTEM	
Interface ports	2x RF output (7-16 DIN female), 1x USB 2.0 Host, 1x USB 2.0 Slave, 1x SD 1x monitor port (SMB female), 1x SMA-RP (Wi-Fi external antenna)
User interface	Local - touch screen display 4.3in (109mm) Remote - tablet, computer, any Wi-Fi enabled user device with web browser Kaelus Unify app compatible with iOS and Android devices, free download from Apple Store and Google Play Store.
Return loss alarm	Automatic detection and shut down when high RL is detected
Compliance	IEC-62037

TRANSMITTER	
Transmit frequencies	See model table
Frequency increment	100kHz
Frequency accuracy	± 5ppm maximum, aging ± 1ppm maximum after first year
Power accuracy (per tone)	± 0.5dB maximum

RECEIVER	
Receive band (100kHz steps)	See model table
Measurement noise floor	< -128dBm
Measurement range	-50dBm to -128dBm

ELECTRICAL	
Battery power	25.9 VDC, 3450 mAh, 90Wh Lithium Ion battery packs (removable)
Battery operating time	Depends on usage, 3 hr minimum per battery pack
Battery charger	Output: 29.4 VDC, 1.2 Amp

MECHANICAL	
Dimensions H x D x W	397 x 205 x 240mm 15.6 x 8 x 9.4in
Weight	19kg 42lbs

ENVIRONMENTAL	
Temperature range	-10°C to +45°C +14°F to +113°F
Ingress protection	IP54. IP67 when enclosed in optional hard case
Operational humidity	5% to 95% RH non-condensing
Storage temperature range	-10°C to +60°C +14°F to +140°F
Mechanical shock	40G shock rating

ORDERING INFORMATION

MODELS				
	DESCRIPTION	TX1 RANGE	TX2 RANGE	RX RANGE (PIM)
iXA-0707A	700MHz LOW/HIGH	728-740MHz	741-764MHz	692-716MHz 776-800MHz
Notes	Specifications subject to change without notice.			
1.	Dual Battery charger for standalone charging sold separately.			
2.	Tablet to control the iXA is not included. Tablet with ruggedized case is offered as an accessory.			
WARNING:	Use of the portable PIM analyzer in a radiating mode, for example when connected to an antenna not enclosed in an anechoic environment, may be a violation of licensing regulations. Users should obtain permission in advance from any licensed operators that might be affected by these tests. Furthermore, radiating high RF power can pose a personnel risk.			

ACCESSORIES		
PART NUMBER	DESCRIPTION	NOTES
ACE-1000A	PIM Instrument self-calibration tool	Highly recommended accessory
ASSY108321	High Capacity Battery - 90Wh	
R92-0588	10" tablet with ruggedized case	
PIL-0005A	Low Passive Intermodulation (PIM) Load	
CIS-0001A	Passive Intermodulation (PIM) Source	Required for RTF calibration
R92-0043	Battery Cradle	
R18-0836	Rugged, Low PIM cable assembly, 2.7 meters (8'10"), 7/16 DIN (M) to 7/16 DIN (M)	
ASSY121959	Rugged, Low PIM cable assembly, 2.7 meters (8'10"), 7/16 DIN (M) to 4.3-10 (M)	

BUNDLES		
PART NUMBER	DESCRIPTION	NOTES
iAK-0150A	iXA Premium Accessory Kit	Ruggedized case to transport iXA Includes Low PIM Load, PIM source, wrenches, cables and adaptors Heavy! 33kg 72.7lbs
iAK-0160A	iXA Accessory Kit light	Ruggedized case only to transport iXA Lighter weight for travel: 25kg 55lbs
iAK-0140A	iXA Softcase Accessory Kit	Backpack to carry the accessories Includes Low PIM Load, PIM source, wrenches, cables and adaptors