



- Expandable PIM Analyzer for Manufacturing and Laboratory.
- One Master Control Unit controls up to 4 different RF Units.
- 3 Measurement Modes: Multi PIM, PIM over Time, PIM over Frequency (Sweep).
- RF Units measure reverse and forward PIM (2-port).
- Measures intermodulation products: IM3, IM5, IM7, IM9, IM11, IM13 to IM25 (4 strongest IM products simultaneously)

AWT's PEM Series expandable PIM analyzers are ideal when multi frequency measurement are required. They are scalable, new frequencies can be added with increasing requirements. This makes them a cost effective solution for component and antenna testing. The PEM Control Unit can manage up to four RF Units with different frequency bands, any frequency combination is possible. PEM Series analyzers are designed for true 24/7 operation - no overheating, no drifting. They are fully conform to the international PIM standard IEC 62037. PEM analyzers are compact and require minimal rack height.

Models

Model	Description	Tx Range (MHz)	Rx Range (MHz)
PEMCTRL	Master Control Unit for up to 4 RF Units	All	All
PEM385	TETRA 385	385 ~ 400	410~ 425
PEM400	TETRA 400	390 ~ 400	380 ~ 385
PEM400E	E-TETRA	420 ~ 430	410 ~ 412
PEM700L	LTE700 (lower band)	728 ~ 759	698 ~ 716
PEM700U	LTE700 (upper band)	730 ~ 759	776 ~ 788
PEM800	LTE800	791 ~ 821	832~ 862
PEM850	AMPS/CDMA	869 ~ 896	824 ~ 851
PEM900E	E-GSM & GSM900	925 ~ 960	880 ~ 915
PEM1800	DCS 1800 /GSM1800	1805 ~ 1880	1710 ~ 1785
PEM1900	PCS1900	1930 ~ 1990	1850 ~ 1910
PEM2000TD	TD-SCDMA(2000)	2010 ~ 2025	1900 ~ 1920
PEM2100AWS	AWS	2110 ~ 2155	1710 ~ 1755
PEM2100UMTS	UMTS/W-CDMA	2110 ~ 2170	1920 ~ 1980 / 2060
PEM2160JP	W-CDMA-JP	2150 ~ 2170	2110 ~ 2140
PEMWBKR	WiBro-KR	2110 ~ 2170 / 2300 ~ 2390	1910 ~ 1990
PEM2600LTE	IMT-E(2600), LTE2600	2620 ~ 2690	2500 ~ 2570
PEM3500	3500LTE	3510 ~ 3590	3410 ~ 3490

RF & Microwave Technology

AWT - Global offers advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications.

Expandable PIM Analyzers

Production testing requires fast and highly reliable PIM analyzers. As the spectrum of manufactured products widens, PIM analysis may have to be performed on additional frequencies. Our expandable PIM analyzer can be equipped with up to four RF Units.

PIM Analyzers -Types

AWT - Global offers a wide variety of PIM analyzers for many different applications. These include single, double, triple and quadruple band analyzers for standard frequencies and customized frequency bands.

Technical Specifications

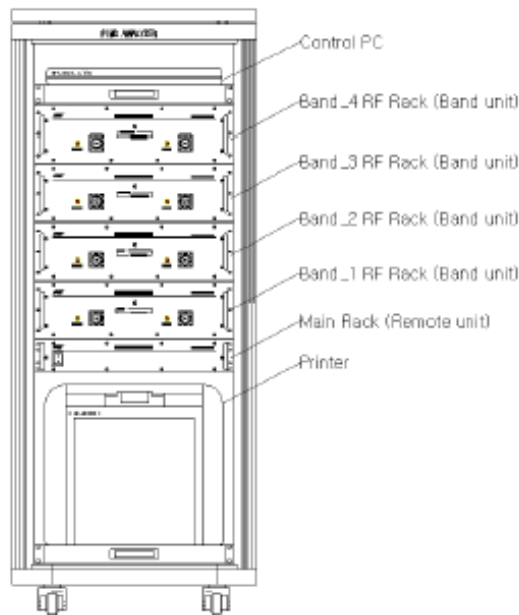
Transmitter	
Frequency band	depends on RF Unit
Frequency increments	100 kHz
Frequency accuracy	2 ppm
Power (per tone) PEM3500	20 - 44 dBm adjustable 20 - 43 dBm
Power Accuracy	+/- 0.35 dB
Reverse Pwr. Protection	+43 dBm for 5 sec

Receiver	
Reverse IM @ 2x43dBm	-45dBm to -129dBm (typ.) -88 dBc to -172 dBc
Forward IM @ 2x43dBm (not for PEM3500)	-45 dBm to -125 dBm (typ.) -88 dBc to -165 dBc
Noise Floor	< 140 dBm typ (@300 Hz) <-134 dBm typ (@1200 Hz)
Dynamic Range (typical)	96 dB (ref: -70 dBm)
Max Input Power	0 dBm
Measurement Accuracy	+/- 1.0dB (typ)

Electrical	
Main Power	100 to 240V, 50 / 60Hz
Control Unit	88 Watts (VA)
RF Units (@ RF power 2 x 44 dBm)	700 W (VA) max

Environmental	
Operating Temperature	0° C to +40° C
Relative humidity	80% RH max (non cond.)

Dimensions / Weight	
Control unit	483 x 305 x 88.9 (mm) 18.8 x 12.1 x 3.5 (inch)
RF Units (excl. EGSM)	483 x 667 x 143 (mm) 18.8 x 26.5 x 5.6(inch)
RF Unit EGSM	483 x 756 x 143 (mm) 18.8 x 29.8 x 5.6 (inch)
Control Unit	11.7 kg / 25.7 lbs
RF units	25 - 28 kg / 55 - 62 lbs



Example: 19" rack set up with printer & PC

Accessories

Type	Description
PCTRLCOM	Control Computer for PS2M, PD2M and PEM Series Analyzers
PLOAD100	Low PIM load 100W, PIM < -165 dBc, 690 - 2800 MHz, Connector DIN(f)
PLOAD100L	Low PIM load 100W, PIM < -163 dBc, 380 - 2800 MHz, Connector DIN(f)
ADA-DMDF	Low PIM adapter, PIM < -165dBc, DIN(m)-DIN(f), Connector Saver
LIC308-DMDM-2M	Low PIM cable, 2m (6 ft), PIM < -165dBc @ 2x43 dBm, DIN(m)-DIN(m)
LIC308-DMDM-1M	Low PIM cable, 1m (3 ft), PIM < -165dBc @ 2x43 dBm, DIN(m)-DIN(m)
PACC2	Accessory Kit: low PIM cable 3m DIN(m)-DIN(m), low PIM Load 50W / 10W, dual port DIN(m)-DIN(f), PIM <-165dBc, torque wrench DIN7/16, (4) low PIM adaptors, cleaning tabs, hard carrying case IP66
PIMGEN	PIM generator, preset PIM value -80 dBm (+/-10) for quick system tests

Product Quality

AWT is committed to providing our customers with products meeting the highest quality standards. All AWT products undergo thorough quality checks and are ISO 9001 and ISO 14001 certified.

For more information on any of our products or services please visit our Web site:

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