

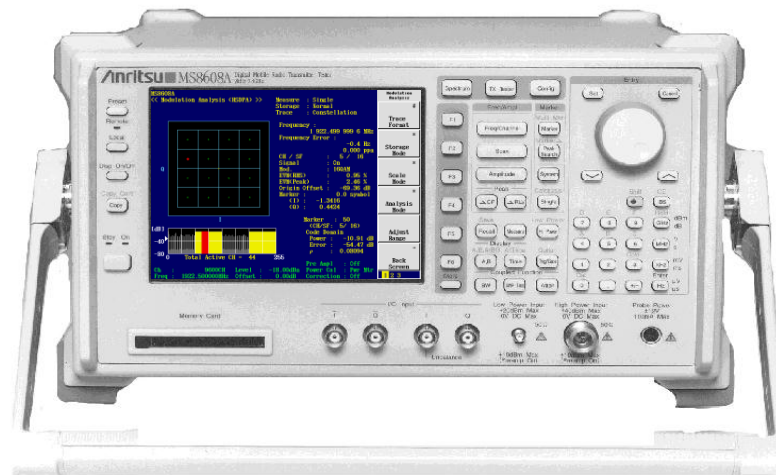
MS8608A/MS8609A

Digital Mobile Radio Transmitter Tester

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Digital Mobile Radio Transmitter Tester

Product Introduction



Anritsu Corporation

Summary

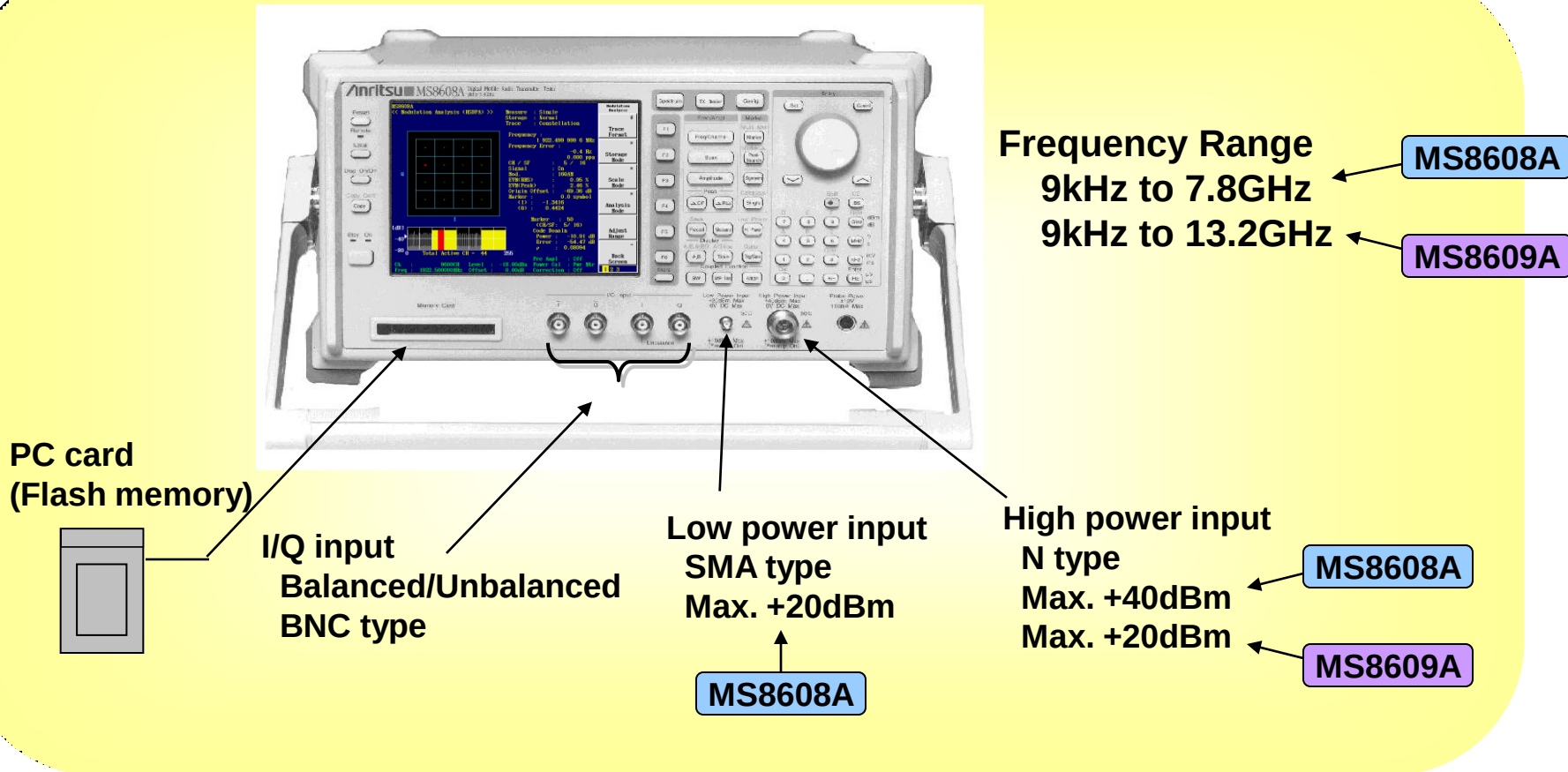
The MS8608/09A is a built-in transmitter tester with spectrum analyzer, modulation analyzer, and power meter. It is able to provide support from the manufacturing and development of base stations and mobile phones to the construction and maintenance of base stations.

The spectrum analyzer covers resolution bandwidth to 20 MHz and can support the measurement of broadband signals.

Measurement software (an option) is multi-system because up to 3 systems -- such as GSM/EDGE, W-CDMA and other exclusive measurement software -- can be installed together.

Appearance

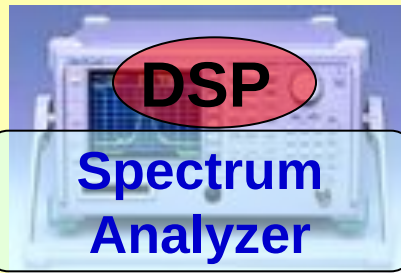
- MS8608/MS8609A front panel



Product concept

-Configuration (MS8608/MS8609A)

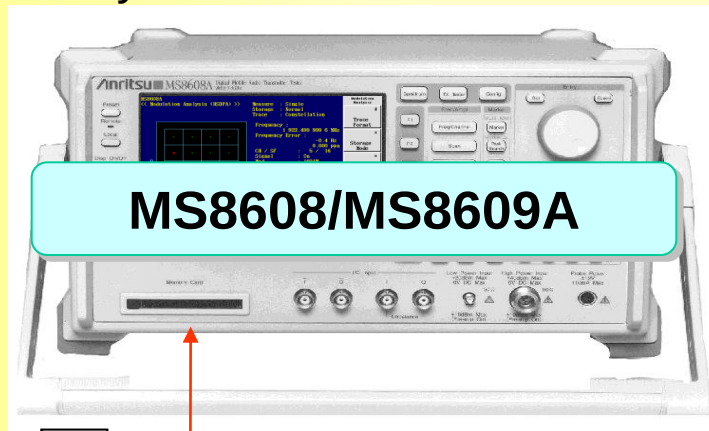
Spectrum analysis+Modulation analysis+Power measurement are all performed on a single instrument.



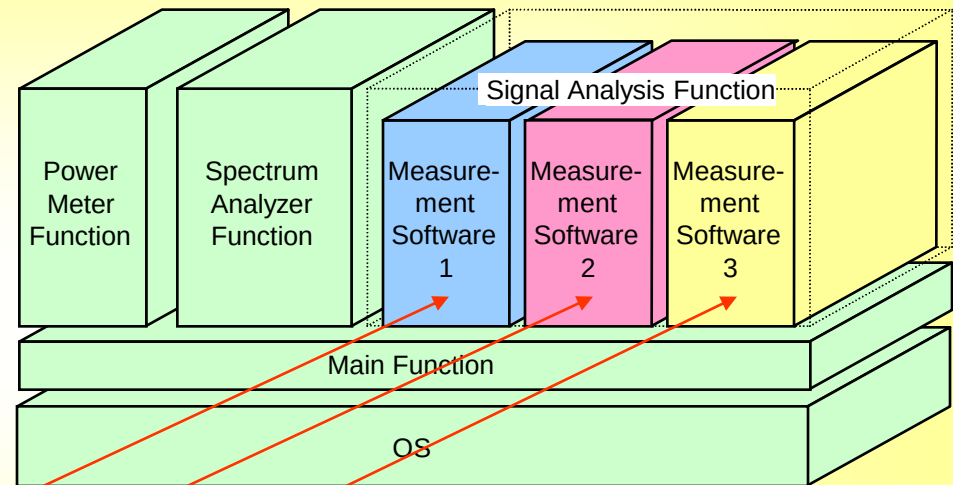
Product concept

Various supporting systems and extendability

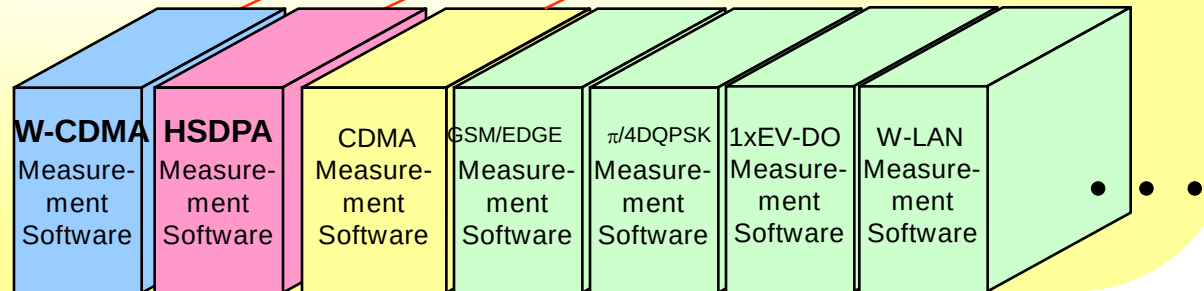
- Max.3 systems can be installed simultaneously.
- Analysis functions are selectable for various mobile communication systems.



MS8608/MS8609A



PC Card
(HSDPA Measurement
Software)

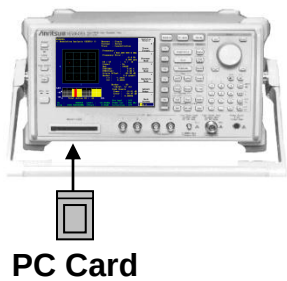


Features

- ◆ **Modulation analysis+Spectrum analysis+Power measurement are all performed on a single instrument.**
- ◆ **Supporting variety of Standards (W-CDMA,GSM,HSDPA etc.)**
- ◆ **Compact and portable chassis**
- ◆ **Broad analysis bandwidth (up to 20MHz)**

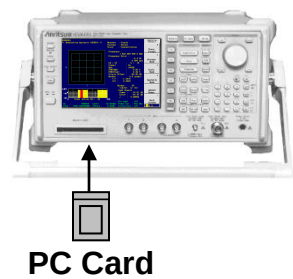
Software List (1)

●Measurement Software (for mainly R&D of BS)



Standards	MS2681A MS2683A MS2687B	MS8608A MS8609A
W-CDMA	O	O
GSM, EDGE	O	O
cdmaOne, cdma2000 1x	O	O
CDMA2000 1xEV-DO	O	O
$\pi/4$ EQPSK	O	O
HSDPA	X	O

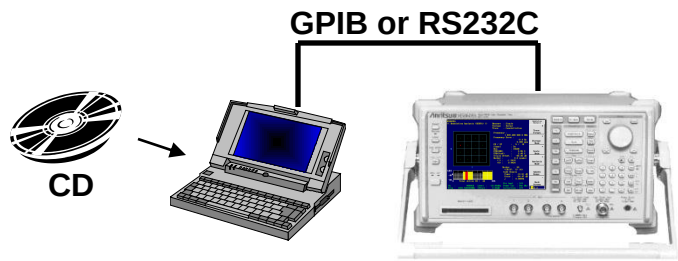
●Measurement Software (for mainly R&D of Wireless LAN instruments)



Standards	MS2681A MS2683A MS2687B	MS8608A MS8609A
W-LAN	O	O

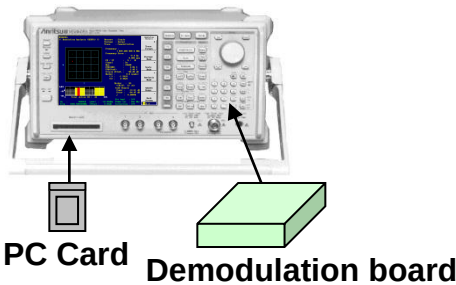
Software List (2)

●Automatic Measurement Software (for construction and maintenance of BS)



Standards	MS2681A MS2683A MS2687B	MS8608A MS8609A
W-CDMA	X	O
cdmaOne, cdma2000 1x	X	O
CDMA2000 1xEV-DO	X	O
$\pi/4$ EQPSK	X	O

●Real time demodulation function (for R&D of UE)



Standards	MS2681A MS2683A MS2687B	MS8608A MS8609A
W-CDMA	X	O

◆ The difference between MS268xA series SPA and MS860xA

Model Name	MS2681A	MS2683A	MS2687B	MS8608A	MS8609A
Price(yen)	1,980,000	2,520,000	3,420,000	2,700,000	3,150,000
Frequency range	9kHz to 3GHz	9kHz to 7.8GHz	9kHz to 30GHz	9kHz to 7.8GHz	9kHz to 13.2GHz
Power meter	Not available	Not available	Option	Standard(Built-in)	Standard(Built-in)
IQ-Balance	Option	Option	Not available	Standard	Standard
IQ-Unbalance	Option	Option	Option	Standard	Standard
Pre amp	Option	Option	Not available	Option	Option

Comparison Table

	Anritsu MS8608A Digital Mobile Radio Transmitter Tester 	Anritsu MS8609A Digital Mobile Radio Transmitter Tester 	Advantest R3273A Spectrum Analyzer 	Agilent E4406A Transmitter Tester 
Main performance				
Power meter function	Available	Available	Not Available	Not Available
Max. Input level	+30dBm	+20dBm	+30dBm	+30dBm
Frequency range	9kHz to 7.8GHz	9kHz to 13.2GHz	100Hz to 26.5GHz	7M to 4GHz
Aging rate	2*10 ⁻⁸ /day	2*10 ⁻⁸ /day	1*10 ⁻⁷ /year 1*10 ⁻¹⁰ /Month(Opt-23)	5*10 ⁻¹⁰ /day
Average noise level	-146dBm	-146dBm	-145dBm	-111dBm
Transmission power accuracy	+/- 0.4dB(0 to +40dBm) Linearity +/-0.2dB typ.(0 to -40dB)	+/- 0.4dB(-20dBm to +20dBm) Linearity +/-0.2dB typ.(0 to -40dB)	+/- 0.4dB(-20dBm to +20dBm) Linearity +/-0.2dB typ.(0 to -30dB)	+/-0.5dB(-40 to +30dBm,) Linearity +/-0.1dB typ.(0 to -78dB)
Adjacent Channel Leakage power Ratio	W-CDMA(3.84MHz BW) • Filter method -55dBc@5MHz offset -62dBc@10MHz offset • Sweep method -68dBc@5MHz offset -75dBc@10MHz offset	W-CDMA(3.84MHz BW) • Filter method -55dBc@5MHz offset -62dBc@10MHz offset • Sweep method -68dBc@5MHz offset -75dBc@10MHz offset		W-CDMA(3.84MHz BW) -68dBc@5MHz offset -72dBc@10MHz offset
Modulation accuracy	≤2.0% rms ≤1.0% rms (typ)	≤2.0% rms ≤1.0% rms (typ)		≤1.0% rms
Code domain Analysis	+/-0.5dB	+/-0.5dB		+/-0.5dB
Others	Analysis Bandwidth ≤ 20MHz	Analysis Bandwidth ≤ 20MHz	Analysis Bandwidth ≤ 10MHz	Analysis Bandwidth ≤ 10MHz Spectrum Analysis is supported with only FFT.
Size[mm]	177H*320W*411D	177H*320W*411D	177H*350W*420D	177H*426W*432D
Weight	15kg	15kg	18kg	19kg
Price	Hard : 3.0M (yen) Soft : 0.5M (yen)	Hard : 3.5M (yen) Soft : 0.5M (yen)	Hard : 3.7M (yen) Soft : 0.5M (yen) Modulation Opt : 0.5M (yen)	Hard : 4.0M (yen) Soft : 0.5M (yen) Base Band Analysis Opt : 0.7M (yen)

Red : Advantage Blue : Weakness

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