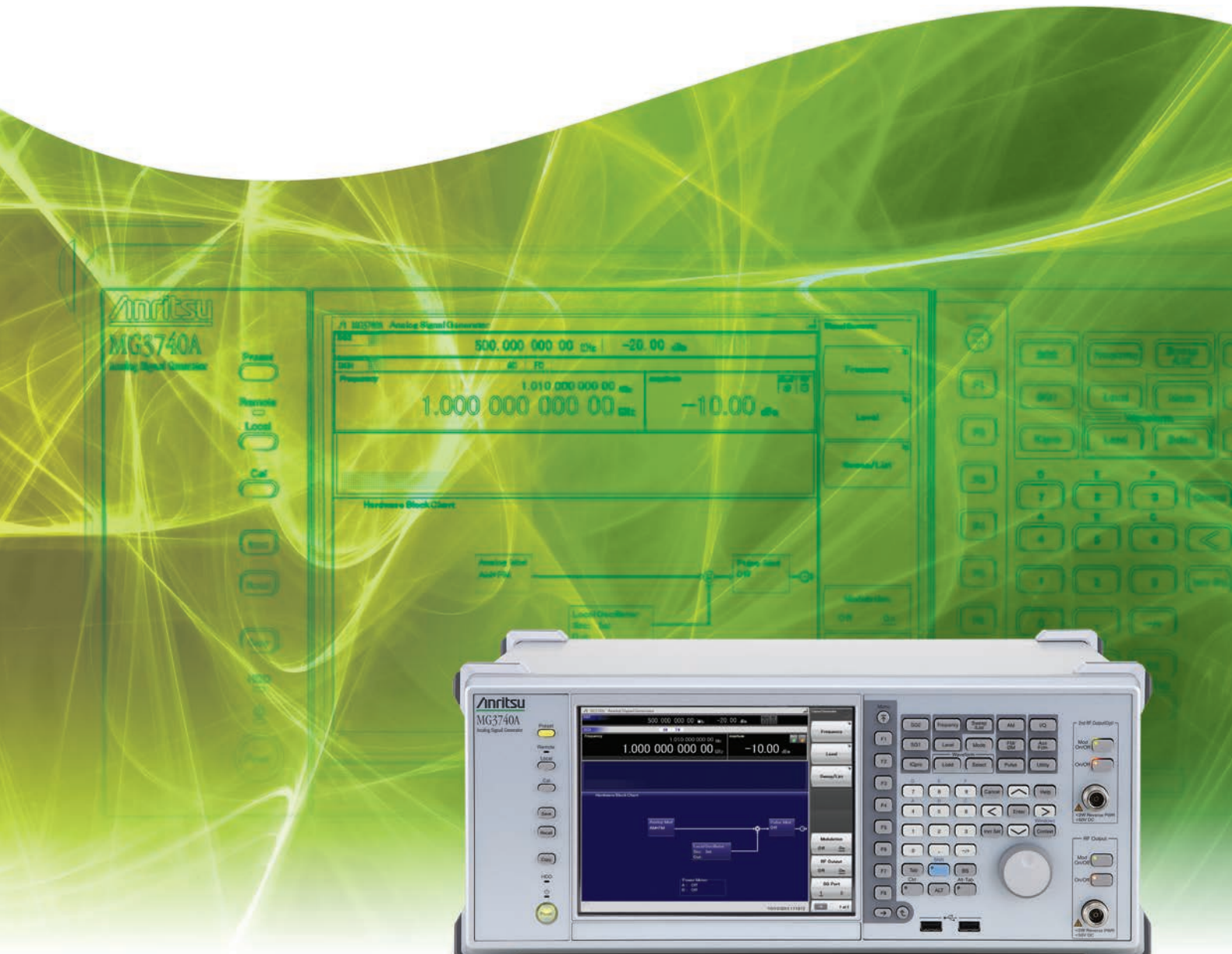


# MG3740A

Analog Signal Generator

Configuration Guide



# MG3740A Analog Signal Generator

## For Analog Modulation

**MG3740A**  
Analog Signal Generator

## Reference Oscillator

**Pre-installed**  
Aging Rate:  $\pm 1 \times 10^{-7}$ /day

**MG3740A-002/102**  
High Stability Reference Oscillator  
Aging Rate:  $\pm 1 \times 10^{-8}$ /day

**MG3740A-001/101**  
Rubidium Reference Oscillator  
Aging Rate:  $\pm 1 \times 10^{-10}$ /month

## Frequency Range for 1stRF

\* Require one of following

**MG3740A-032**  
1stRF 100 kHz to 2.7 GHz

**MG3740A-034**  
1stRF 100 kHz to 4 GHz

**MG3740A-036**  
1stRF 100 kHz to 6 GHz

**MG3740A-041/141**  
High Power Extension for 1stRF

**MG3740A-042/142**  
Low Power Extension for 1stRF

**MG3740A-043/143**  
Reverse Power Protection for 1stRF

## Frequency Range for 2ndRF

\* Select one of following

**MG3740A-062/162**  
2ndRF 100 kHz to 2.7 GHz


**MG3740A-064/164**  
2ndRF 100 kHz to 4 GHz

**MG3740A-066/166**  
2ndRF 100 kHz to 6 GHz

**MG3740A-071/171**  
High Power Extension for 2ndRF

**MG3740A-072/172**  
Low Power Extension for 2ndRF

**MG3740A-073/173**  
Reverse Power Protection for 2ndRF

 Order at least one of these items.

Options with -0xx appended are standard options at shipment.

Options with -1xx can be retrofitted after shipment but no other option numbers can be retrofitted.

**For Digital Modulation**

**MG3740A-017/117**  
Universal Input/Output  
(with J1539A)

**J1539A**  
AUX Conversion Adaptor

**MG3740A-020/120**  
Digital Modulation

**MG3740A-021/121**  
BER Test Function  
(with J1539A)

**MG3740A-011/111**  
2ndary HDD

**MG3740A-313**  
Removable HDD  
\* Not simultaneously with Opt. 029

**MG3740A-029**  
OS Upgrade to Windows 7  
\* Not simultaneously with Opt. 313

**MG3740A-050/150**  
Additional Analog Modulation Input  
for 1stRF

**ARB Memory Upgrade**

[Requires Opt. 020/120]  
\* Select one of following

**Pre-installed for 1stRF**  
64 Msamples

**MG3740A-045/145**  
ARB Memory Upgrade  
256 Msample for 1stRF

**MG3740A-048/148**  
Combination of Baseband Signal for 1stRF  
\* Requires Opt. 020/120

**MG3740A-080/180**  
Additional Analog Modulation Input  
for 2ndRF

**ARB Memory Upgrade**

[Requires Opt. 020/120]  
\* Select one of following

**Pre-installed for 2ndRF**  
64 Msamples

**MG3740A-075/175**  
ARB Memory Upgrade  
256 Msample for 2ndRF

**MG3740A-078/178**  
Combination of Baseband Signal for 2ndRF  
\* Requires Opt. 020/120

This document explains how to order the new MG3740A and MG3740A retrofit options and software. Follow the steps below to select your MG3740A configuration. Functions marked standard are built-in at factory shipment. Options and software can be added as necessary. Two RF outputs (1stRF and 2ndRF) can be installed in the MG3740A. The options for each RF output are color coded as follows:

Options for both 1stRF and 2ndRF	Options only for 1stRF	Options only for 2ndRF
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## To add options to the MG3740A order as follows:

### Example

Model	MG3740A
Option	MG3740A-032
Option	MG3740A-041

### Step. 1 Choose frequency range for 1stRF.

(Required option: The frequency range cannot be upgraded.)

Name	Option No.	Additional Information
1stRF 100 kHz to 2.7 GHz	MG3740A-032	1stRF output of analog signal generator.
1stRF 100 kHz to 4 GHz	MG3740A-034	Select the model with the required frequency range.
1stRF 100 kHz to 6 GHz	MG3740A-036	The 1stRF frequency cannot be changed retroactively after ordering.

### Step. 2 Choose frequency range for 2ndRF.

(This extra option cannot be retrofitted.)

Name	Option No.	Additional Information
2ndRF 100 kHz to 2.7 GHz	MG3740A-062	2ndRF output of analog signal generator.
2ndRF 100 kHz to 4 GHz	MG3740A-064	Select one model with the required frequency range.
2ndRF 100 kHz to 6 GHz	MG3740A-066	The 2ndRF frequency cannot be changed retroactively after ordering.

### Step. 3 Choose frequency reference.

Choose one reference oscillator. The selected reference oscillator performance is enabled and other reference oscillators are disabled.

Name	Option No.	Additional Information
Standard Reference Oscillator	Standard	Aging Rate: $\pm 1 \times 10^{-6}$ /year, $\pm 1 \times 10^{-7}$ /day
Rubidium Reference Oscillator	MG3740A-001	Aging Rate: $\pm 1 \times 10^{-10}$ /month
High Stability Reference Oscillator	MG3740A-002	Aging Rate: $\pm 1 \times 10^{-7}$ /year, $\pm 1 \times 10^{-8}$ /day

## Step. 4 Select the signal output level setting range expansion and the reverse input power protection.

Name	Option No.	Additional Information
High Power Extension for 1stRF	MG3740A-041	Extends signal output setting range upper limit (Standard +17 dBm) Opt. 041/141 installed and Opt. 043/143 not installed, CW Level setting range: Hi limit +30 dBm Opt. 041/141 installed and Opt. 043/143 installed, CW Level setting range: Hi limit +25 dBm
Low Power Extension for 1stRF	MG3740A-042	Extends signal output setting range lower limit (Standard -110 dBm) Level setting range: Lo limit -144 dBm
Reverse Power Protection for 1stRF	MG3740A-043	Protects signal output connector against reverse input power (Standard 2 W nominal) Max. reverse input: 20 W nominal (1 MHz < frequency ≤ 2 GHz) 10 W nominal (2 GHz < frequency ≤ 6 GHz)
High Power Extension for 2ndRF	MG3740A-071	Extends signal output setting range upper limit (Standard +17 dBm) Opt. 071/171 installed and Opt. 073/173 not installed, CW Level setting range: Hi limit +30 dBm Opt. 071/171 installed and Opt. 073/173 installed, CW Level setting range: Hi limit +25 dBm
Low Power Extension for 2ndRF	MG3740A-072	Extends signal output setting range lower limit (Standard -110 dBm) Level setting range: Lo limit -144 dBm
Reverse Power Protection for 2ndRF	MG3740A-073	Protects signal output connector against reverse input power (Standard 2 W nominal) Max. reverse input: 20 W nominal (1 MHz < frequency ≤ 2 GHz) 10 W nominal (2 GHz < frequency ≤ 6 GHz)

### ● Setting Range of the Signal output level

Options	Setting Range [dBm]	
	Without RPP*	With RPP*
Standard	-110 to +17	-110 to +17
With High Power Extension	-110 to +30	-110 to +25
With Low Power Extension	-144 to +17	-144 to +17
With High & Low Power Extension	-144 to +30	-144 to +25

\*RPP: Reverse Power Protection

### ● Accuracy guaranteed upper limit level of the signal output level

#### Without Reverse Power Protection

Frequency Range	Without High Power Extension	With High Power Extension
100 kHz ≤ f < 10 MHz	+5 dBm	+5 dBm
10 MHz ≤ f < 50 MHz	+10 dBm	+10 dBm
50 MHz ≤ f < 400 MHz	+13 dBm	+20 dBm
400 MHz ≤ f ≤ 3 GHz		+23 dBm
3 GHz < f ≤ 4 GHz		+20 dBm
4 GHz < f ≤ 5 GHz		+13 dBm
5 GHz < f ≤ 6 GHz	+11 dBm	+11 dBm

#### With Reverse Power Protection

Frequency Range	Without High Power Extension	With High Power Extension
100 kHz ≤ f < 10 MHz	+2 dBm	+2 dBm
10 MHz ≤ f < 50 MHz	+7 dBm	+7 dBm
50 MHz ≤ f < 400 MHz	+10 dBm	+17 dBm
400 MHz ≤ f ≤ 3 GHz		+20 dBm
3 GHz < f ≤ 4 GHz		+17 dBm
4 GHz < f ≤ 5 GHz		+10 dBm
5 GHz < f ≤ 6 GHz	+8 dBm	+8 dBm

## Step. 5 Choose the external input/output options.

Name	Option No.	Additional Information
Universal Input/Output	MG3740A-017	Installs Sweep Output (only supports 1stRF) signal connector on rear panel of main frame *: Also provides J1539A AUX Conversion Adapter for Opt. 017/117 to use rear panel AUX connector
AUX Conversion Adapter	J1539A	Adapter for converting rear panel AUX connector to BNC connector
Additional Analog Modulation Input for 1stRF	MG3740A-050	Adds additional analog modulation inputs function for 1stRF. Extends to two internal modulation sources (AM/FM/ΦM), and one external modulation source supporting simultaneous two-signal modulation. Installs external signal input connector on rear panel of main unit.
Additional Analog Modulation Input for 2ndRF	MG3740A-080	Adds additional analog modulation inputs function for 2ndRF. Extends to two internal modulation sources (AM/FM/ΦM), and one external modulation source supporting simultaneous two-signal modulation. Installs external signal input connector on rear panel of main unit.

## Step. 6 Choose the Digital Modulation function.

Name	Option No.	Additional Information
Digital Modulation	MG3740A-020	Adding the digital modulation function supports generation of digital modulation signals by outputting narrowband digital modulation signals. Digital Modulation Performance <ul style="list-style-type: none"> <li>RF modulation bandwidth: 2 MHz</li> <li>Sampling rate: 20 kHz to 8 MHz</li> </ul>

## Step. 7 Select the baseband vector signal generator ARB memory size option (Requires MG3740A-020/120).

The selected memory is enabled and others are disabled.

Name	Option No.	Additional Information
ARB Memory 64 Msample for 1stRF	With MG3740A-020/120 Standard	With MG3740A-020/120 installed, Standard baseband generator for 8 MHz sampling rate and 64 Msamples ARB memory size (256 MB)
ARB Memory Upgrade 256 Msample for 1stRF	MG3740A-045	Upgrades ARB size to 256 Msamples (1 GB) With Opt. 048/148 not installed, installs 1 × 256 Msamples With Opt. 048/148 installed, installs 2 × 256 Msamples
2ARB Memory 64 Msample for 2ndRF	With MG3740A-020/120 Standard	With MG3740A-020/120 installed, Standard baseband generator for 8 MHz sampling rate and 64 Msamples waveform memory size (256 MB)
ARB Memory Upgrade 256 Msample for 2ndRF	MG3740A-075	Upgrades ARB size to 256 Msamples (1 GB) With Opt. 078/178 not installed, installs 1 × 256 Msamples With Opt. 078/178 installed, installs 2 × 256 Msamples

Note: Since each waveform pattern size is different, if the memory is not upgraded, sometimes the waveform pattern cannot be used.

For details, refer to the IQproducer catalog.

## Step. 8 Select the baseband signal combine function options (Requires MG3740A-020/120).

Name	Option No.	Additional Information
Combination of Baseband Signal for 1stRF	MG3740A-048	Two internal ARB memories. Selects two waveform patterns per one RF output for setting mutual frequency offset, level offset, delay time, etc., to output 2 signals from 1 RF connector
Combination of Baseband Signal for 2ndRF	MG3740A-078	Two internal ARB memories. Selects two waveform patterns per one RF output for setting mutual frequency offset, level offset, delay time, etc., to output 2 signals from 1 RF connector

## Step. 9 Choose the BER test function.

Name	Option No.	Additional Information
BER Test Function	MG3740A-021	Installs Bit Error Rate (BER) measurement function Input signals: Data, Clock, Enable Bit rate: 100 bps to 40 Mbps *: Also provides J1539A AUX Conversion Adapter for Opt. 021/121 to use rear panel AUX connector

## Step. 10 Choose OS and HDD options.

Name	Option No.	Additional Information
OS Upgrade to Windows 7	MG3740A-029	Upgrades embedded Windows XP OS to Windows 7 (32-bit, Professional) This option cannot be applied to Opt. 313 (Removable HDD).
2ndary HDD	MG3740A-011	User installable/removable HDD
Removable HDD	MG3740A-313	User exchangeable HDD with Windows XP OS Opt. 029 cannot be applied to this HDD option.

## Step. 11 Choose warranty options.

Name	Option No.	Additional Information
1 Year Warranty Service	Standard	Excludes consumables
2 Years Extended Warranty Service	MG3740A-ES210	
3 Years Extended Warranty Service	MG3740A-ES310	
5 Years Extended Warranty Service	MG3740A-ES510	

## Step. 12 Choose IQproducer software license (Requires MG3740A-020/120).

IQproducer is PC application software for generating waveform patterns. The parameters are set using IQproducer and the waveform pattern is created to output the signal by selection at the MG3740A. This one software application includes all the following systems.

Since it runs on any PC, the supported functions and parameter range can be verified before purchase.

When outputting a waveform pattern from the MG3740A, no signal is output unless a license for that system is installed in the main frame.

Note: Since the size of each waveform pattern is different, sometimes waveforms cannot be output if the memory upgrade option has not been installed.

For details refer to the waveform pattern catalog.

Name	Option No.	Additional Information
TDMA IQproducer	MX370102A	Sets required parameters for TDMA waveform patterns and generates various waveform patterns. Setting parameters include Modulation, Frame, Slot, Data, Filter, etc. Supports wide application range including public wireless.
Fading IQproducer	MX370107A	Performs IQ channel fading processing, correlation matrix calculation, AWGN combination. Input data file created by selecting waveform pattern file created with other IQproducer software, and IQ data (ASCII) created with other general-purpose simulation tools.

# Retrofit to Current MG3740A

## Hardware Option Retrofits

The following hardware options can be retrofitted. Order the Z1572A Installation Kit as well. The MG3740A must be returned to the Anritsu plant for hardware retrofitting.

Name	Option No.	Additional Information	Reference Steps
Options for both 1stRF and 2ndRF			
Rubidium Reference Oscillator	MG3740A-101		3
High Stability Reference Oscillator	MG3740A-102		3
2ndary HDD	MG3740A-111		10
Universal Input/Output	MG3740A-117		5
Digital Modulation	MG3740A-120		6
BER Test Function	MG3740A-121		9
OS Upgrade to Windows 7	MG3740A-313	Cannot applied to MG3740A with Opt. 029 (Windows 7)	10
1stRF Options			
High Power Extension for 1stRF	MG3740A-141		4
Low Power Extension for 1stRF	MG3740A-142		4
Reverse Power Protection for 1stRF	MG3740A-143		4
ARB Memory Upgrade 256 Msample for 1stRF	MG3740A-145	Requires MG3740A-020/120.	7
Combination of Baseband Signal for 1stRF	MG3740A-148	Requires MG3740A-020/120.	8
Additional Analog Modulation Input for 1stRF	MG3740A-150		5
2ndRF Options			
2ndRF 100 kHz to 2.7 GHz	MG3740A-162	Cannot be installed if 2ndRF option not installed	2
2ndRF 100 kHz to 4 GHz	MG3740A-164	Cannot be installed if 2ndRF option not installed	2
2ndRF 100 kHz to 6 GHz	MG3740A-166	Cannot be installed if 2ndRF option not installed	2
High Power Extension for 2ndRF	MG3740A-171		4
Low Power Extension for 2ndRF	MG3740A-172		4
Reverse Power Protection for 2ndRF	MG3740A-173		4
ARB Memory Upgrade 256 Msample for 2ndRF	MG3740A-175	Requires MG3740A-020/120.	7
Combination of Baseband Signal for 2ndRF	MG3740A-178	Requires MG3740A-020/120.	8
Additional Analog Modulation Input for 2ndRF	MG3740A-080		5
Application parts			
Installation Kit	Z1572A	Required when retrofitting hardware options or installing IQproducer (MX3701xxA)	—



## Software Option Retrofits (Requires MG3740A-020/120)

The following software options can be retrofitted. Order the Z1572A Installation Kit as well. The MG3740A does not require return to the Anritsu plant for software retrofitting.

Name	Option No.	Additional Information	Reference Steps
IQproducer			
TDMA IQproducer	MX370102A		12
Fading IQproducer	MX370107A		12
Application parts			
Installation Kit	Z1572A	Required when retrofitting hardware options or installing IQproducer (MX3701xxA)	—

# Options Configuration Guide

The following table shows the recommended option combinations.

Type	Opt. No	Retrofit	Name	032	034	036	041	042	043	045	048	050
1stRF	MG3740A-032		1stRF 100 kHz to 2.7 GHz		*1	*1						
1stRF	MG3740A-034		1stRF 100 kHz to 4 GHz	*1		*1						
1stRF	MG3740A-036		1stRF 100 kHz to 6 GHz	*1	*1							
1stRF	MG3740A-041	141	High Power Extension for 1stRF									
1stRF	MG3740A-042	142	Low Power Extension for 1stRF									
1stRF	MG3740A-043	143	Reverse Power Protection for 1stRF									
1stRF	MG3740A-045	145	ARB Memory Upgrade 256 Msample for 1stRF									
1stRF	MG3740A-048	148	Combination of Baseband Signal for 1stRF									
1stRF	MG3740A-050	150	Additional Analog Modulation Input for 1stRF									
2ndRF	MG3740A-062	162	2ndRF 100 kHz to 2.7 GHz									
2ndRF	MG3740A-064	164	2ndRF 100 kHz to 4 GHz									
2ndRF	MG3740A-066	166	2ndRF 100 kHz to 6 GHz									
2ndRF	MG3740A-071	171	High Power Extension for 2ndRF									
2ndRF	MG3740A-072	172	Low Power Extension for 2ndRF									
2ndRF	MG3740A-073	173	Reverse Power Protection for 2ndRF									
2ndRF	MG3740A-075	175	ARB Memory Upgrade 256 Msample for 2ndRF									
2ndRF	MG3740A-078	178	Combination of Baseband Signal for 2ndRF									
2ndRF	MG3740A-080	180	Additional Analog Modulation Input for 2ndRF									
Common	MG3740A-001	101	Rubidium Reference Oscillator									
Common	MG3740A-002	102	High Stability Reference Oscillator									
Common	MG3740A-011	111	2ndary HDD									
Common	MG3740A-017	117	Universal Input/Output									
Common	MG3740A-020	120	Digital Modulation									
Common	MG3740A-021	121	BER Test Function									
Common	MG3740A-029		OS Upgrade to Windows 7									
Common	MG3740A-313	313	Removable HDD									

- \*1: Only one of 2.7 GHz, 4 GHz, and 6 GHz options. Install any one 1stRF option. Retrofitting one of these options disables previously installed option.
- \*2: Only one of 2.7 GHz, 4 GHz, and 6 GHz options. Retrofitting one of these options disables previously installed option. Install any one 2ndRF option. Can be retrofitted only when 2ndRF not installed.
- \*3: Removable HDD (Opt. 313) cannot be upgraded to Windows 7. Opt. 313 can only be applied to MG3740A with Opt. 029 (Windows 7) applied.
- \*4: Requires Digital Modulation (Opt. 020/120).

## Maximum Waveform Pattern Size and Required Options for Simultaneous Use

### • 1stRF (Opt. 032/034/036)

Combination of Baseband Signal (Opt. 048)	ARB Memory Upgrade 256 Msample (Opt. 045)	
	W/O	With Opt. 045
W/O	64 Msamples × 1 pc	256 Msamples × 1 pc
With Opt. 048*	64 Msamples × 2 pcs 128 Msamples × 1 pc	256 Msamples × 2 pcs 512 Msamples × 1 pc

### • 2ndRF (Opt. 062/064/066)

Combination of Baseband Signal (Opt. 078)	ARB Memory Upgrade 256 Msample (Opt. 075)	
	W/O	With Opt. 075
W/O	64 Msamples × 1 pc	256 Msamples × 1 pc
With Opt. 078*	64 Msamples × 2 pcs 128 Msamples × 1 pc	256 Msamples × 2 pcs 512 Msamples × 1 pc

- \*: The Baseband Signal Combine option supports two ARB memories and can either set two different waveform patterns or combine them as one memory to support one large waveform pattern.



# Ordering Information

Please specify the model/order number, name and quantity when ordering.

The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name	Remarks
MG3740A	- <b>Main frame</b> - Analog Signal Generator	
P0031A	- <b>Standard accessories</b> - Power Cord: USB Memory Install CD-ROM	1 pc USB2.0 Flash Driver, ≥256 MB Operation manual (PDF) and application software (IQproducer)
MG3740A-001 MG3740A-002 MG3740A-011 MG3740A-017	- <b>Options</b> - (Common Parts) Rubidium Reference Oscillator High Stability Reference Oscillator 2ndary HDD Universal Input/Output	Select when ordering main frame, aging rate: $\pm 1 \times 10^{-10}$ /month Select when ordering main frame, aging rate: $\pm 1 \times 10^{-7}$ /year Select when ordering main frame, spare HDD for saving user data without Windows OS Select when ordering main frame, Adds BNC connectors for Sweep Output signal (only supports SG1) to rear panel of main frame, includes J1539A AUX Conversion Adapter Select when ordering main frame, Built-in Digital Modulation function.
MG3740A-020	Digital Modulation	Digital modulation Performance: - RF modulation bandwidth: 2 MHz - Sampling rate: 20 kHz to 8 MHz
MG3740A-021	BER Test Function	Select when ordering main frame, Built-in BER measurement, Bit Rate: 100 bps to 40 Mbps J1539A AUX Conversion Adapter required for Data/Clock/Enable signal input
MG3740A-029	OS Upgrade to Windows 7	Select when ordering main frame, Upgrades MG3740A OS to Windows 7 (32 bit, Professional) (retrofit not supported)
MG3740A-101 MG3740A-102 MG3740A-111 MG3740A-117 MG3740A-120 MG3740A-121 MG3740A-313	Rubidium Reference Oscillator Retrofit High Stability Reference Oscillator Retrofit 2ndary HDD Retrofit Universal Input/Output Retrofit Digital Modulation Retrofit BER Test Function Retrofit Removable HDD	Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Spare HDD for storing user data with Windows OS MG3740A with Opt. 029 (Windows 7) cannot apply Opt. 313.
MG3740A-032	(For 1stRF) 1stRF 100 kHz to 2.7 GHz	Select when ordering main frame, select 1stRF frequency range, frequency cannot be changed after installation
MG3740A-034	1stRF 100 kHz to 4 GHz	Select when ordering main frame, select 1stRF frequency range, frequency cannot be changed after installation
MG3740A-036	1stRF 100 kHz to 6 GHz	Select when ordering main frame, select 1stRF frequency range, frequency cannot be changed after installation
MG3740A-041 MG3740A-042 MG3740A-043	High Power Extension for 1stRF Low Power Extension for 1stRF Reverse Power Protection for 1stRF	Select when ordering main frame, increases upper limit of output signal power setting range Select when ordering main frame, increases lower limit of output signal power setting range Select when ordering main frame, prevents damage caused by reverse input to output connector
MG3740A-045 MG3740A-048 MG3740A-050	ARB Memory Upgrade 256 Msample for 1stRF Combination of Baseband Signal for 1stRF Additional Analog Modulation Input for 1stRF	Select when ordering main frame, expands ARB memory capacity. Requires MG3740A-020. Select when ordering main frame, adds baseband combine function. Requires MG3740A-020. Select when ordering main frame, Adds BNC connector for inputting external signals to rear panel of mainframe.
MG3740A-141 MG3740A-142 MG3740A-143 MG3740A-145 MG3740A-148 MG3740A-150	High Power Extension for 1stRF Retrofit Low Power Extension for 1stRF Retrofit Reverse Power Protection for 1stRF Retrofit ARB Memory Upgrade 256 Msample for 1stRF Retrofit Combination of Baseband Signal for 1stRF Retrofit Additional Analog Modulation Input for 1stRF Retrofit	Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A. Requires MG3740A-020/120. Retrofitted to shipped MG3740A. Requires MG3740A-020/120. Retrofitted to shipped MG3740A
MG3740A-062	(For 2ndRF) 2ndRF 100 kHz to 2.7 GHz	Select when ordering main frame, select 2ndRF frequency range, frequency cannot be changed after installation
MG3740A-064	2ndRF 100 kHz to 4 GHz	Select when ordering main frame, select 2ndRF frequency range, frequency cannot be changed after installation
MG3740A-066	2ndRF 100 kHz to 6 GHz	Select when ordering main frame, select 2ndRF frequency range, frequency cannot be changed after installation
MG3740A-071 MG3740A-072 MG3740A-073 MG3740A-075 MG3740A-078 MG3740A-078 MG3740A-080	High Power Extension for 2ndRF Low Power Extension for 2ndRF Reverse Power Protection for 2ndRF ARB Memory Upgrade 256 Msample for 2ndRF Combination of Baseband Signal for 2ndRF Additional Analog Modulation Input for 2ndRF	Select when ordering main frame, increases upper limit of output signal power setting range Select when ordering main frame, increases lower limit of output signal power setting range Select when ordering main frame, prevents damage caused by reverse input to output connector Select when ordering main frame, expands ARB memory capacity. Requires MG3740A-020. Select when ordering main frame, adds baseband combine function. Requires MG3740A-020. Select when ordering main frame, Adds BNC connector for inputting external signals to rear panel of mainframe.
MG3740A-162 MG3740A-164 MG3740A-166 MG3740A-171 MG3740A-172 MG3740A-173 MG3740A-175 MG3740A-178 MG3740A-180	2ndRF 100 kHz to 2.7 GHz Retrofit 2ndRF 100 kHz to 4 GHz Retrofit 2ndRF 100 kHz to 6 GHz Retrofit High Power Extension for 2ndRF Retrofit Low Power Extension for 2ndRF Retrofit Reverse Power Protection for 2ndRF Retrofit ARB Memory Upgrade 256 Msample for 2ndRF Retrofit Combination of Baseband Signal for 2ndRF Retrofit Additional Analog Modulation Input for 2ndRF Retrofit	Retrofitted to shipped MG3740A when 2ndRF not installed Retrofitted to shipped MG3740A when 2ndRF not installed Retrofitted to shipped MG3740A when 2ndRF not installed Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A Retrofitted to shipped MG3740A. Requires MG3740A-020/120. Retrofitted to shipped MG3740A. Requires MG3740A-020/120. Retrofitted to shipped MG3740A
MG3740A-ES210 MG3740A-ES310 MG3740A-ES510	- <b>Maintenance service</b> - 2 Years Extended Warranty Service 3 Years Extended Warranty Service 5 Years Extended Warranty Service	

Model/Order No.	Name	Remarks
MX370102A MX370107A	<b>- Softwares - (IQproducer)</b> TDMA IQproducer Fading IQproducer	(License for IQproducer) IQproducer software, license for main frame, manual (PDF) IQproducer software, license for main frame, manual (PDF)
W3580AE W2496AE W2916AE W2995AE	<b>- Optional accessories -</b> MG3710A/MG3740A Operation Manual (Main Unit) MG3710A/MG3740A Operation Manual (IQproducer) MX370102A Operation Manual MX370107A Operation Manual	Booklet, for MG3710A/MG3740A Main Frame (Operation, Remote Control) Booklet, for IQproducer (Operation for Common Parts) Booklet, for TDMA IQproducer Booklet, for Fading IQproducer
J1539A Z1572A MA24105A MA24106A MA24108A MA24118A MA24126A K240B	AUX Conversion Adapter Installation Kit Inline Peak Power Sensor USB Power Sensor Microwave USB Power Sensor Microwave USB Power Sensor Microwave USB Power Sensor Power Divider (K connector)	Converts MG3740A rear-panel AUX connector to BNC connector Required when retrofitting hardware options or installing IQproducer (MX3701xxA) 350 MHz to 4 GHz, Inline type, with USB A to micro-B Cable 50 MHz to 6 GHz, with USB A to mini-B Cable 10 MHz to 8 GHz, with USB A to micro-B Cable 10 MHz to 18 GHz, with USB A to micro-B Cable 10 MHz to 26 GHz, with USB A to micro-B Cable DC to 26.5 GHz, K-J, 50 Ω, 1 Wmax
MA1612A MP752A MA2512A J0576B J0576D J0127A J0127B J0127C J0322A J0322B J0322C J0322D J0004 J1261B J1261D J0008 B0635A B0657A B0636C B0645A B0671A Z0975A Z0541A	Four-Port Junction Pad Termination Band Pass Filter Coaxial Cord, 1.0 m Coaxial Cord, 2.0 m Coaxial Cord, 1.0 m Coaxial Cord, 2.0 m Coaxial Cord, 0.5 m Coaxial Cord, 0.5 m Coaxial Cord, 1.0 m Coaxial Cord, 1.5 m Coaxial Cord, 2.0 m Coaxial Adapter Ethernet Cable (Shield Type) Ethernet Cable (Shield Type) GPIB Cable, 2.0 m Rack Mount Kit Rack Mount Kit (JIS) Carrying Case Soft Carrying Case Front Cover for 1MW4U Keyboard (USB) USB Mouse	5 MHz to 3 GHz, N-J DC to 12.4 GHz, 50 Ω, N-P For W-CDMA, passband: 1.92 GHz to 2.17 GHz N-P · 5D-2W · N-P N-P · 5D-2W · N-P BNC-P · RG-58A/U · BNC-P BNC-P · RG-58A/U · BNC-P BNC-P · RG-58A/U · BNC-P SMA-P · SMA-P, DC to 18 GHz, 50 Ω SMA-P · SMA-P, DC to 18 GHz, 50 Ω SMA-P · SMA-P, DC to 18 GHz, 50 Ω SMA-P · SMA-P, DC to 18 GHz, 50 Ω N-P · SMA-J Conversion Adapter, DC to 12.4 GHz Straight-through, 3 m Crossover, 3 m  EIA JIS Hard Type. With Casters and B0671A Front Cover Soft Type

Typical (typ.): Performance not warranted. Must products meet typical performance.

Nominal (nom.): Values not warranted. Included to facilitate application of product.

Measured (meas): Performance not warranted. Data actually measured by randomly selected measuring instruments.

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**Note:**



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