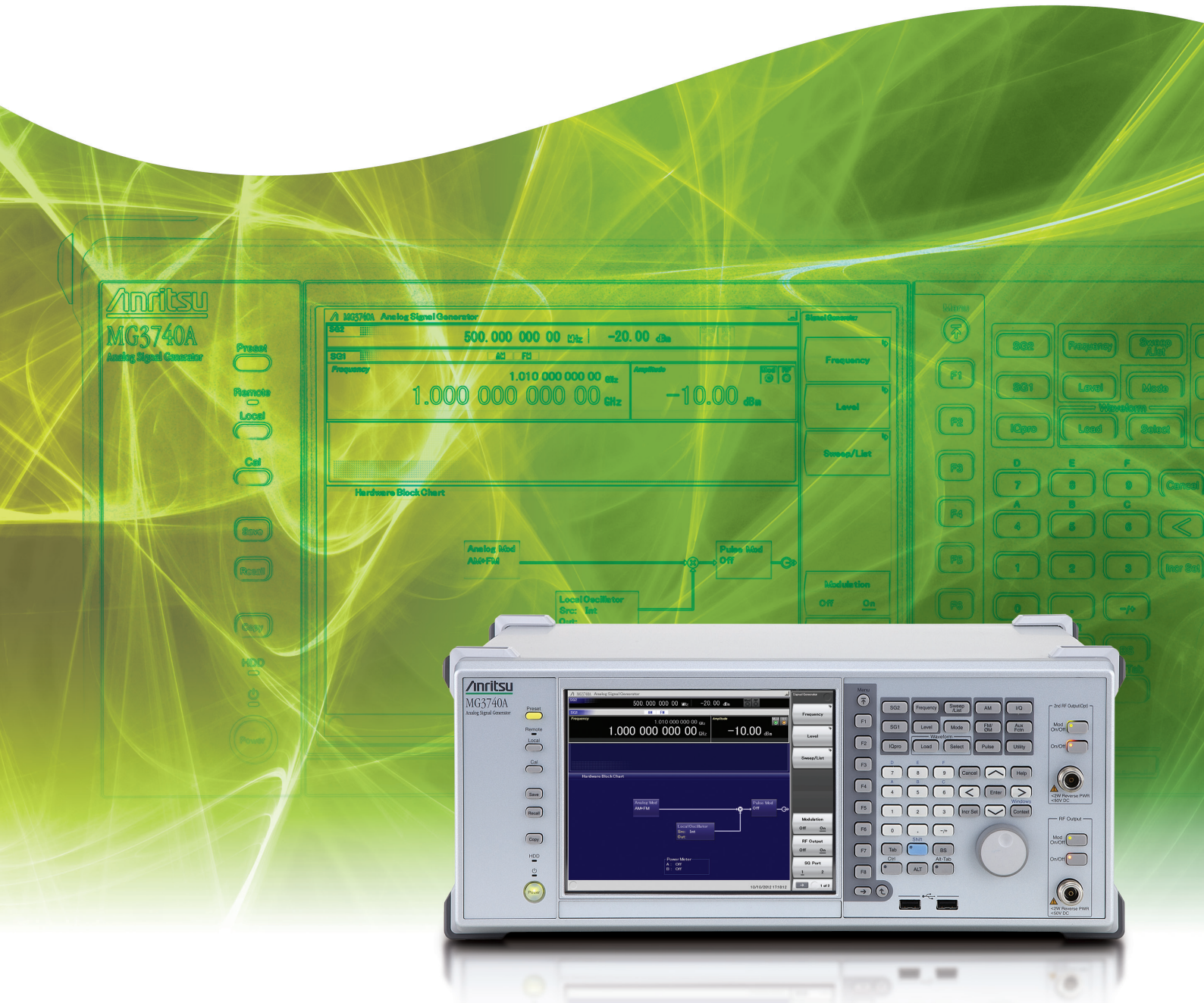
Configuration Guide

Anritsu

MG3740A

Analog Signal Generator

Configuration Guide



MG3740A Analog Signal Generator

For Analog Modulation

MG3740A
Analog Signal Generator

Reference Oscillator

Pre-installed
Aging Rate: ±1 × 10^{-7}/day

MG3740A-002/102
High Stability Reference Oscillator
Aging Rate: ±1 × 10^{-8}/day

MG3740A-001/101
Rubidium Reference Oscillator
Aging Rate: ±1 × 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-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**

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. Select the model with the required frequency range. The 1stRF frequency cannot be changed retroactively after ordering.
1stRF 100 kHz to 4 GHz	MG3740A-034	
1stRF 100 kHz to 6 GHz	MG3740A-036	

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. Select one model with the required frequency range. The 2ndRF frequency cannot be changed retroactively after ordering.
2ndRF 100 kHz to 4 GHz	MG3740A-064	
2ndRF 100 kHz to 6 GHz	MG3740A-066	

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 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 • RF modulation bandwidth: 2 MHz • Sampling rate: 20 kHz to 8 MHz

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 HDD option.

Name	Option No.	Additional Information
2ndary HDD	MG3740A-011	User installable/removable HDD

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
CPU/Windows7 Upgrade Retrofit	MG3740A-181	This option is for MG3740A units ordered until May 2018. It upgrades the currently installed CPU to a faster CPU and the OS to Windows 7 (WES7). Due to OS license restrictions, this option is not applicable to MG3740A units in which Opt. 313 Removable HDD (sales discontinued) is installed.	—
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									

∗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: 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.

062	064	066	071	072	073	075	078	080	001	002	011	017	020	021
													∗3	
													∗3	
	∗2	∗2												
∗2		∗2												
∗2	∗2													
													∗3	
													∗3	

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	**- Main frame -** Analog Signal Generator	
P0031A	**- Standard accessories -** Power Cord: 1 pc USB Memory Install CD-ROM	 USB2.0 Flash Driver, ≥256 MB Operation manual (PDF) and application software (IQproducer)
	- Options -	
	(Common Parts)	
MG3740A-001	Rubidium Reference Oscillator	Select when ordering main frame, aging rate: ±1 × 10^{-10}/month
MG3740A-002	High Stability Reference Oscillator	Select when ordering main frame, aging rate: ±1 × 10^{-7}/year
MG3740A-011	2ndary HDD	Select when ordering main frame, spare HDD for saving user data without Windows OS
MG3740A-017	Universal Input/Output	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
MG3740A-020	Digital Modulation	Select when ordering main frame, Built-in Digital Modulation function. 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-101	Rubidium Reference Oscillator Retrofit	Retrofitted to shipped MG3740A
MG3740A-102	High Stability Reference Oscillator Retrofit	Retrofitted to shipped MG3740A
MG3740A-111	2ndary HDD Retrofit	Retrofitted to shipped MG3740A
MG3740A-117	Universal Input/Output Retrofit	Retrofitted to shipped MG3740A
MG3740A-120	Digital Modulation Retrofit	Retrofitted to shipped MG3740A
MG3740A-121	BER Test Function Retrofit	Retrofitted to shipped MG3740A
MG3740A-181	CPU/Windows7 Upgrade Retrofit	Retrofitted to shipped MG3740A This option is for MG3740A units ordered until May 2018. It upgrades the currently installed CPU to a faster CPU and the OS to Windows 7 (WES7). Due to OS license restrictions, this option is not applicable to MG3740A units in which Opt. 313 Removable HDD (sales discontinued) is installed.
	(For 1stRF)	
MG3740A-032	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	High Power Extension for 1stRF	Select when ordering main frame, increases upper limit of output signal power setting range
MG3740A-042	Low Power Extension for 1stRF	Select when ordering main frame, increases lower limit of output signal power setting range
MG3740A-043	Reverse Power Protection for 1stRF	Select when ordering main frame, prevents damage caused by reverse input to output connector
MG3740A-045	ARB Memory Upgrade 256 Msample for 1stRF	Select when ordering main frame, expands ARB memory capacity. Requires MG3740A-020.
MG3740A-048	Combination of Baseband Signal for 1stRF	Select when ordering main frame, adds baseband combine function. Requires MG3740A-020.
MG3740A-050	Additional Analog Modulation Input for 1stRF	Select when ordering main frame, Adds BNC connector for inputting external signals to rear panel of mainframe.
MG3740A-141	High Power Extension for 1stRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-142	Low Power Extension for 1stRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-143	Reverse Power Protection for 1stRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-145	ARB Memory Upgrade 256 Msample for 1stRF Retrofit	Retrofitted to shipped MG3740A. Requires MG3740A-020/120.
MG3740A-148	Combination of Baseband Signal for 1stRF Retrofit	Retrofitted to shipped MG3740A. Requires MG3740A-020/120.
MG3740A-150	Additional Analog Modulation Input for 1stRF Retrofit	Retrofitted to shipped MG3740A
	(For 2ndRF)	
MG3740A-062	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	High Power Extension for 2ndRF	Select when ordering main frame, increases upper limit of output signal power setting range
MG3740A-072	Low Power Extension for 2ndRF	Select when ordering main frame, increases lower limit of output signal power setting range
MG3740A-073	Reverse Power Protection for 2ndRF	Select when ordering main frame, prevents damage caused by reverse input to output connector
MG3740A-075	ARB Memory Upgrade 256 Msample for 2ndRF	Select when ordering main frame, expands ARB memory capacity. Requires MG3740A-020.
MG3740A-078	Combination of Baseband Signal for 2ndRF	Select when ordering main frame, adds baseband combine function. Requires MG3740A-020.
MG3740A-080	Additional Analog Modulation Input for 2ndRF	Select when ordering main frame, Adds BNC connector for inputting external signals to rear panel of mainframe.
MG3740A-162	2ndRF 100 kHz to 2.7 GHz Retrofit	Retrofitted to shipped MG3740A when 2ndRF not installed
MG3740A-164	2ndRF 100 kHz to 4 GHz Retrofit	Retrofitted to shipped MG3740A when 2ndRF not installed
MG3740A-166	2ndRF 100 kHz to 6 GHz Retrofit	Retrofitted to shipped MG3740A when 2ndRF not installed
MG3740A-171	High Power Extension for 2ndRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-172	Low Power Extension for 2ndRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-173	Reverse Power Protection for 2ndRF Retrofit	Retrofitted to shipped MG3740A
MG3740A-175	ARB Memory Upgrade 256 Msample for 2ndRF Retrofit	Retrofitted to shipped MG3740A. Requires MG3740A-020/120.
MG3740A-178	Combination of Baseband Signal for 2ndRF Retrofit	Retrofitted to shipped MG3740A. Requires MG3740A-020/120.
MG3740A-180	Additional Analog Modulation Input for 2ndRF Retrofit	Retrofitted to shipped MG3740A
	- Maintenance service -	
MG3740A-ES210	2 Years Extended Warranty Service	
MG3740A-ES310	3 Years Extended Warranty Service	
MG3740A-ES510	5 Years Extended Warranty Service	

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

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.