

Mitsubishi iQ Platform-compatible Graphic Operation Terminal GOT1000 Series [GT12 Model]

October 2009 New Product Release



Debut!





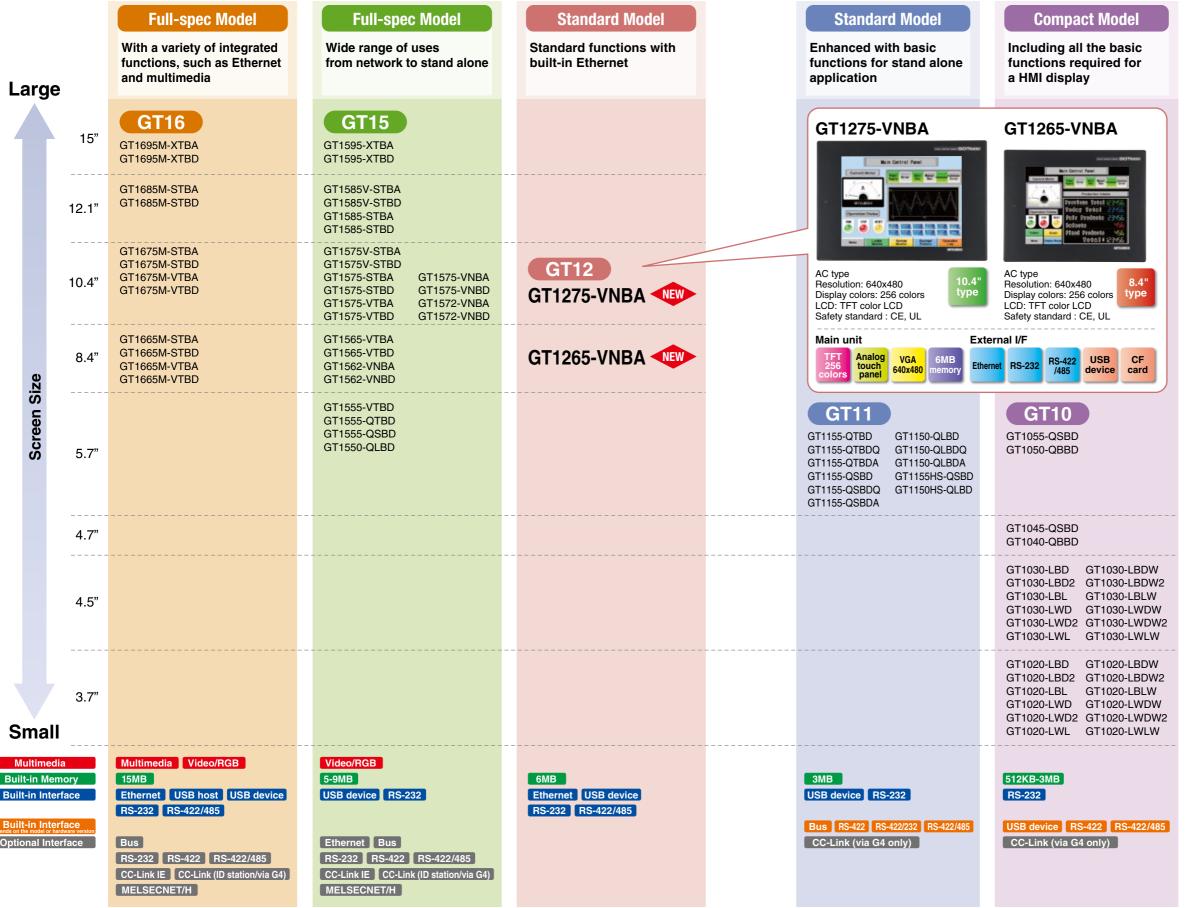
Cost Effective | Large-Size | Built-in Ethernet

Large-size models with built-in Ethernet in the standard model range!



GOT1000 Comprehensive Lineup

Including the new, cost-effective GT12 Series models, a total of 73 models provides the widest range of display options for the OEM machine builder and End User facility installation.



GT12



Fully integrated models now released!

GT12 10.4 inch and 8.4 inch models

Integrated hardware and functionality is now available in large-size models.

Stylish body



Flexible embedded communications



2

NEW_{model}

GT12, new models offer flexible configurations and expandability

A wide range of devices can be interfaced to GT12 models using Ethernet • RS-232 • RS-422/485

■ A variety of built-in interfaces

The built-in interfaces (Ethernet, RS-422/485 and RS-232) enable connection to up to two kinds of FA equipment simultaneously.

■ Ethernet helps extend systems

The built-in Ethernet interface connects to PLC CPUs with built-in Ethernet and host systems easily.

■ Wide selection of connectable FA devices and peripherals

Barcode readers

RFID readers

- Mitsubishi PLCs/motion controllers
- Microcomputers Mitsubishi servo amplifiers Temperature controllers
- Mitsubishi inverters
- Mitsubishi industrial robots
- Mitsubishi CNCs
- Third party PLCs *: For the connectable models and connection types, refer to GOT1000 series connection manuals

Connection type to Mitsubishi PLCs/motion controllers

connection type to unitable in a 200/motion controller						
: Supp	orted -	-: Not s	upported			
Ethernet	CPU direct connection	Computer link	CC-Link (via G4)			
O *1	O *2	0	0			
0	0	0	_			
0	0	0	_			
0	0	0	_			
0	0					
_	0	0	0			
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	O : Supp	O: Supported	O: Supported —: Not si Character link O Computer link			

*1:QnUDE has a built-in Ethernet module; additional module is not required *2:Excluding QnUDE

Multi-channel function

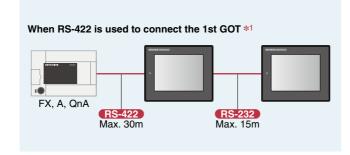
■ The multi-channel function enables the connection of different types of FA devices simultaneously.

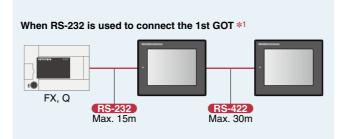
Up to 2 channels of equipment such as PLCs/servo amplifiers/inverters/ temperature controllers can be connected and monitored.



Multi-terminal connection

■ Up to two GT12 units can be connected to one PLC



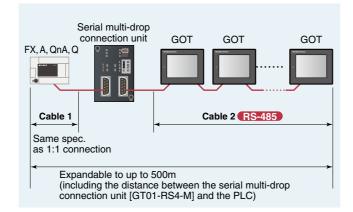


*1:Refer to the connection manual for applicable models, required interface and compatibility with serial communication units (computer link units). The maximum length varies depending on the connected equipment. Refer to the connection manual for more details

Multi-drop connection



■ Multiple GT12 units can be connected to one PLC unit via the serial multi-drop connection unit.



Other features

■ USB device (Mini-B, rear face)

Connecting to a personal computer via USB (Mini-B) enables the transfer of operating systems and project data. The FA transparent function enables modification of sequence programs.

■ TFT LCD VGA (640x480) monitor

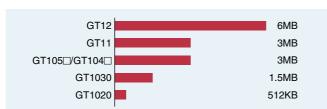
TFT LCD display provides easily-viewable screens. VGA resolution provides satisfactory expressiveness.

■ Analog touch panel

Objects such as push buttons and switches can be freely placed around the screen. The clear display face without grids makes it easy to recognize pictures and characters

■ Ample memory capacity

The GT12 has 6MB memory so users can add a variety of objects, parts, and functions without running out of memory.



GT12 provides many essential functions suited for engineered solutions

Useful functions of GT12

■ Even low cost models are infused with functionality commonly found in more expensive models.

- Multi-channel function
- •Historical trend graph function
- •Recipe function (CSV, binary)
- A/FX list editor

- Logging function
- Backup/restore function
- Advanced alarm function
- System monitor function

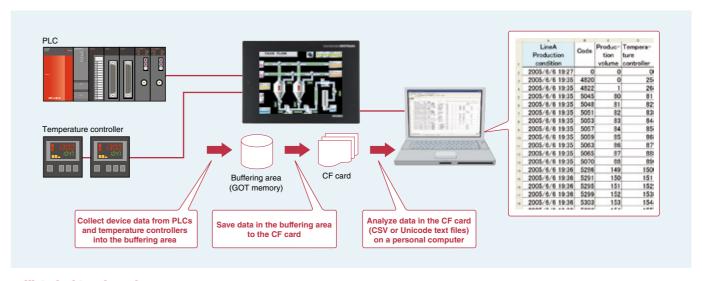
■ Multi-language display (excluding KANJI region settings)

Logging function/Historical trend graph

■ Logging function

Collecting data from temperature controllers and other units with the GOT can reduce the load on the PLC

•Collected data can be used for archives and analytical purposes when being saved to a CF card.



■ Historical trend graph

- ●Data collected by the logging function can be displayed in a time-series graph from a CF card as well as from the buffering area
- *: Logging function settings are required to use historical trend graph.
- The data collected by the logging function can be displayed in graph form; past data can be displayed simply by touching a scroll switch.
- •By specifying a date and time, a specific time can be displayed in the

Backup/restore function

■ Backup important sequence programs to be safe and secure in case of an emergency

- The sequence program and parameter data of the PLC CPU and motion controller can be backed up to the CF card in the GOT.
- ●Users can perform batch operation to restore the data to the PLC CPU
- <Applicable data> Programs, parameters, device comments, device initial value data, file registers, etc.
- <Applicable model> MELSEC Q-Series (excluding Q12PRH/Q25PRHCPU), Q-Series motion controllers (SV13/SV22 only), MELSEC FX-Series, CNC C70
- <Applicable connection type> CPU direct connection, computer link connection, Ethernet connection (host only)
- <Optional device> CF card

CPU direct

Example of use

using the backup

If data is backed up

Make a data backup in preparation for PLC CPU failure or a dead

battery to quickly replace the faulty device and restore the system

PLC CPU programs can be changed easily without a personal computer at the worksite or any previous programming knowledge of GX Developer.

For more details, see "GOT1000 series catalog"<L(NA) 08054-E 0901>

*:When replacing the PLC CPU, the restoration function may not be available depending on the system configuration and connection type.

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Function list

Hardware specifications Others Built-in interface Resolution Display colors Memory	Bus connect CPU direct of Computer lin MELSECNIE CC-Link IE of CC-Link Con Ethernet con Third party F Microcomput MODBUS®/ Temperature Inverter con Servo ampli CNC Connection (C6/C64) Robot contro Standard me Total memo optional me 65,536 colors	Function onnection k connection K connection K connection TH connection TH connection TH connection TH connection CC connection TC connection TC connection TC connection CC controller connection CC controller connection Ider connection Id	on ion ion ion ion ion ion ion ion ion i	E Erenteki upironal function OS installation	CF card	GT1695M -XTBC XGA 15"	GT1685M -STBC SVGA 12.1"	GT1675M - STBD SVGA 10.4"	GT1675M -VTB□ VGA 10.4" - - - - - - - - - - - - - - - - - - -	GT1665M -STB□ SVGA 8.4"	Model GT1665M -VTBCI VGA 8.47	GT1275 -VNBA VGA 10.4"	GT1285 -VNBA VGA WGA WGA Wia G4 only GMB - GMB - GMB	GT115C -QCBD OVGA 5,7" Via G4 only GT115C -QCBD OVGA 5,7" GT115C -QCBD OVGA 5,7" OVGA 5,7" OVGA 6,7" OVG	GT111 GT115 -Q□BD□ QVGA 5.7"	GT115DHS-QVGA GVGA 5.7"
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E	Boot OS ins	allation			USB memory <gt16 only="">)</gt16>	•	•	•	•	•	•	•	•	•	•	•
8	Start from C				CF card	•	•	•	•			•	•	_	_	_
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ig .	FA transpare Multi-channe						•	•	•		•	•	•	_		* 4
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	Superimpos Overlap win	ed window dis	splay				•	•	•	•	•	•	•	•	•	•
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	Supported		BMP image display			•		•	•		•	•	•	•	•	•
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				nal func	~		T		Γ16	I			Γ12		GT11	T
tegory		Funct	ion *1	option allati	red	GT1695M -XTB□	GT1685M -STB□	GT1675M -STB□	GT1675M -VTB□	GT1665M -STB□	GT1665M -VTB□	GT1275 -VNBA	GT1265 -VNBA	GT115□ -Q□BD	GT115□ -Q□BD□	GT115
				ended inst	Other require device	XGA	SVGA	SVGA	VGA	SVGA	VGA	VGA	VGA	QVGA	QVGA	QVG
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		ct + figure) lay	er function			•	•	•	•	•		•	•		•	•
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	Multilingual support function Password System information															
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5	Data operation											•	•			
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			nequired	CF card/ USB memory	•	•	•	•	•	•	_	-	_	_	_	
					<gt16 only="">)</gt16>											
		Lamp display				•	•	•	•	0	•	•	•		•	•
		Touch switch Numeric display/input				•	•	•	•	•	•	•	•	•	•	•
		Numeric display/input Data list display														
	ASCII displa												•			
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	Status obse	ervation function	on						•		•		•	•	•	•
		ecipe function		Required		•			•	•		_				_
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	Report fund	tion		Required	Printer unit CF card	•	•		•	•		_	-	_	-	-
	Hardcopy		File saving in CF card		CF card				•			•	•	_		_
	function		Printing on printer	Required								_				_
	Barcode fur	nction		Required												_
	RFID functi	on		Required		•			•			•				_
	Multimedia	Multimedia function		Required	Multimedia unit,				•			_	_	_	_	
	- Incolu	Waltimedia function			CF Calu						_					
	Remote per	Remote personal computer function			Video/RGB input unit	•			•	•		_	_	-	_	-
(D	Sound outs	Sound output function			Sound output unit							_	_	_	_	_
Others					External input/											
1 8	External inp	out/output fund	tion	Required	output unit	•	•	•	•	•	•	_	-	-	-	-
	0	anal from "		Dec:	External input/											
	Operation p	anel function		Required	output unit	•	•	•	•	•	•	_	_		_	
		Screen call function				•	•	•	•	•	•	•	•	•	•	•
			Operation log function		CF card	•	•	•	•	•	•	_			_	_
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	Operation to Document of Logging function of Script functions of Device data System mo. List editor for SFC monitor Ladder edit Ladder mor Intelligent un Q motion m	og function display function function function function function	Project script Screen script Object script tion	Required	(CF card) CF card CF card								• • • • • • - - -	• • • • • - -	GT115□-Q□BDA only	
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Maintenance functions	Operation le Document d Logging fun Script funct Device data System mo List editor fe SFC monite Ladder mor Intelligent u Q motion m Servo ampl	og function display function differ monitor function display function	Project script Screen script Object script tion	Required	CF card CF card (CF card)				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		• • • • • • • • • • • • • • • • • • •	•	• • • • - - -	GT115□-Q□BDA only	
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*1:Functions details, such as the number of settings and the data storage destination, vary depending on the model.

*2:Required options or optional units other than the optional function board are shown. Parenthesized devices will be required depending on conditions of use. For details, see "Notes for use, Selection of optional units and devices" (page 77).

*3:The RS-232 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.

*4:Hardware configuration restrictions apply.

*5:To use the historical trend graph, it is necessary to set up the logging function in advance. In addition, it is necessary to install the optional function OS (logging).

*6:Required only when using fingerprint authentication.

*7:Only the FTP function is supported.

Mitsubishi Electric Corporation Nagoya Works is certified to the environment management system ISO 14001 and the quality management system ISO 9001.







6

General specifications -

Item				Specif	ication				
Operating ambient	Display			0 to	50°C				
temperature	Other than display		0 to 55°C						
Storage ambient t	emperature			-20°C	to 60°C				
Operating ambien	t humidity	10 to 90% RH, no condensation							
Storage ambient h	numidity		1	10 to 90% RH,	no condensation	n			
				Frequency	Acceleration	Half amplitude	Sweep count		
			Under intermittent	5 to 9 Hz	-	3.5 mm	10 times in each of X, Y and Z		
Vibration resistance		JIS B 3502 vibration	9 to 150 Hz	9.8 m/s ²	-	directions			
		IEC 61131-2 Unc	Under continuous	5 to 9 Hz	-	1.75 mm			
			vibration	9 to 150 Hz	4.9 m/s ²	-] -		
Impact resistance		Conforming to JIS B 3502 and IEC 61131-2 (147 m/s², 3 times in each of X, Y and Z directions)							
Operating atmosp	here			No corre	sive gas				
Operating altitude	1			2,000 m	or lower				
Installation locatio	n	In control panel							
Overvoltage categ	ory*2			I or l	ower				
Contamination lev	el*3			2 or	less				
Cooling method				Self-c	ooling				
Grounding		Class	D grounding (1	00 Ω or less).	Connect to pan	el if unable to g	round.		

- : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds the 0 m elevation atmospheric pressure, as this could result in abnormal operation.

 Assuming that the device is contented at some point between a public power distribution network and local system equipment. Category <u>T</u> applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500 V for devices with artiface just 0 500 V for devices with artiface just 0 500 V. Index that indicates the level of foreign conductive matter in the operating environment of device. Contamination level 2 denotes contamination by one-conductive matter only, though momentary conductivity may occur due to occasional condensation.

Do not use or store the GOT under direct sunlight or in an environment with excessively high temperature, dust, humidity or vibration.

Power supply specifications -

	Specification
Item	GT1265/75-VNBA
Input power supply voltage	100 to 240 V AC (+10%, -15%)
Input frequency	50/60Hz ±5%
Input maximum voltampere	44 VA (at max. load)
Power consumption	18 W or less
With backlight off	15 W or less
Inrush current	40 A or less (4 ms, at max. load)
Permissive instantaneous failure time	Within 20 ms (100 V AC or more)
Noise resistance	Noise voltage 1,500 Vp-p, and noise width 1µs, by noise simulator with noise frequency 25 to 60 Hz
Withstand voltage	1,500 V AC for 1 minute between power supply terminals and ground
Insulation resistance	10 M Ω or higher with an insulation resistance tester (500 V DC between power supply terminals and ground)
Applicable wire size	0.75 to 2 [mm ²]
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A and FV2-N3A
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N·m]

Performance specifications -

	la						
	Item	GT1275-VNBA	GT1265-VNBA				
	Туре	TFT ∞	lor LCD				
	Screen size	10.4"	8.4"				
	Resolution	640 x 48	80 [dots]				
	Display size	211.2(W) x 158.4(H) [mm]	170.9(W) x 128.2(H) [mm]				
Display"1	Number of displayed characters	16-dot standard font: 40 chars. x 30 lines (2-byte) 12-dot standard font: 53 chars. x 40 lines (2-byte)					
	Display colors	256 colors					
	View angle*2	Right/left: 45°, Up/down: 20°					
	Intensity	200 [c	cd/m ²]				
	Intensity adjustment	4-step ad	djustment				
	Life	Approx. 52,000 hours (Operati	ng ambient temperature: 25°C)				
Backlight		Cold-cathode fluorescent tube (replaceable), 1 CCFL light.					
	Life*3	50,000 hours or more	40,000 hours or more				
	Life -	(Time for display intensity reaches 50% a	at operating ambient temperature of 25°C				
	Туре	Analog resistive type					
Touch	Key size	Min. 2 x 2 [dots] (per key)					
panel	No. of simultaneous touch points	Simultaneous touch prohibited' ⁴ (1 point touch only)					
	Life	1,000,000 times or more (op-	erating force 0.98 [N] or less)				
	C drive		flash memory ata and function OS)				
Memory ¹⁵	Life (No. of writings)	100,00	0 times				
	Built-in SRAM	512	2KB				

- *1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Flickeing may occur depending on the display colors. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

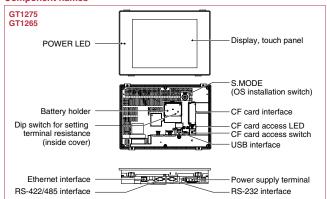
 *2. LCD and the very characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.

 *3. Using the GOT screen savesbucklight OFF functions prevents screen burn-in and extends the backlight life.

	Item	Specifi	cation					
		GT1275-VNBA	GT1265-VNBA					
Battery		GT11-50BAT type lithium battery						
	Backed up data	Clock data, alarm history, and recipe data						
	Life	Approx. 5 years (operating a	ambient temperature: 25°C)					
	RS-232	RS-232, 1 ch, Transmission speed: 115,20 Connector shape: D-sub 9-pin (male), Applica devices, communication v	ation: communication with PLC and other FA					
Built-in	RS-422/485	RS-422/485, 1 ch, Transmission speed: 115,200/57,600/38,400/19,200/9,600/4,800 bps Connector shape: D-sub 9-pin (female), Application: Communication with PLC and other FA devices						
interface	Ethernet	Data transmission system: 100BASE-TX, 1 ch, Connector shape: RJ-45 (modular connector), Application: communication with connected devices						
	USB	USB (Full Speed 12 Mbps), device 1 ch, Connector shape: Mini-B, Application: connection to personal computer (Project data upload/download, OS installation, FA transparent function)						
	CF card	Compact flash slot 1ch., Connector shape: Type I, Application: data transfer, data storage						
Buzzer o	utput	Single tone (tone I	ength adjustable)					
Protective	construction	JEM1030, Fr	ront: IP67f ^{*6}					
External	dimensions	303(W) x 214(H) x 53(D)	241(W) x 190(H) x 58(D)					
Panel cut	dimensions	289(W) x 200(H) mm	227(W) x 176(H) mm					
Weight (exc	luding mounting brackets)	2.3kg	1.7kg					
Applicable software packages Screen design software		GT Designer3 Vers	ion 1.01B or later*7					

- 44. An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the midd of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.
 55. The memory is a ROM that permits overwriting of new data without having to delete the existing data.
 65. The screen simultaneously.
 65. The memory is a ROM that permits overwriting of new data without having to delete the existing data.
 66. This does not guarantee protection in all users' environments. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with full of oil mist.
 77. (I Works will be supported in the next version (except for GT12).

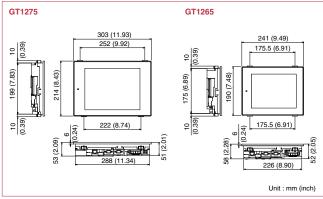
Component names



Product lineup

	Model	Screen size [Resolution]	Display	Display color	Power supply	Memory capacity
GT12	GT1275-VNBA	10.4" VGA[640x480 dots]	TFT color LCD	256 colors	100 to 240 V AC	6MB
0112		8.4" VGA[640x480 dots]	TFT color LCD	256 colors	100 to 240 V AC	6MB

External dimensions —



Options

Product name	Model	Specifications				
Battery	GT11-50BAT	Battery for backup of clock data, alarm history, and recipe data (for replacement				
Protective sheet	GT11-70PSCB	Protective sheet for 10,4"	Clear, 5 sheets			
Protective sneet	GT11-60PSCB	Protective sheet for 8,4"	Clear, 5 stieets			
Backlight	GT12-70VLTN	Backlight for GT1275-VNBA				
backlight	GT12-60VLTN	Backlight for GT1265-VNBA				

MITSUBISHI ELECTRIC CORPORATION

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