MITSUBISHI Electric Corporation MELSEC Q Series

Computer Link Driver

Supported version TOP Design Studio V1.0 or higher



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We want to thank our customers who use the Touch Operation Panel.

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Describe the cable specifications required for connection.

6. Supported addresses

Refer to this section to check the data addresses which can communicate with an external device.



1. System configuration

The system configuration of TOP and "MITSUBISHI Electric Corporation - MELSEC Q Computer Link" is as follows.

Series	CPU	Link I/F	Communication method	Communication setting	Cable
MELSEC Q	All CPUs	QJ71C24 QJ71C24-R2 QJ71C24-R4 QJ71C24N QJ71C24N-R2 QJ71C24N-R4	RS-232C RS-422/485	<u>3. TOP</u> <u>communication</u> <u>setting</u> 4. External device	<u>5. Cable table</u>
MELSEC iQ-R		RJ71C24 RJ71C24-R2	RS-232C	setting	
		RJ71C24-R4	RS-422/485		

% In case of communication module QJ71C24, QJ71C24-R2, or QJ71C24-R4, pay attention to the following items.

(1) In case of using a communication card, set the sum of channel 1 and channel 2 communication speed to 115200[BPS] or less.

(2) It is not possible to use with Q $\Box \Box UDE \Box$ CPU.

■ Connectable configuration

1:1 connection



1:N connection





2. External device selection

■ Select a TOP model and a port, and then select an external device.

PLC select [CO	M1]					
Filter : [All]			\sim	Search :		_
				۲	Model	○ Vendor
Vendor M2I Corporation	,	Model				
MITSUBISHI Electric Corpo	oration		MELSEC Q Series			
OMRON Industrial Automa	ation		MELSEC FX Series			
LS Industrial Systems			MELSEC AnN/AnS Seri	es		
			MELSEC AnA/AnU Seri	es		
		8	MELSERVO J2 Series			
SIEMENS AG.			MELSERVO J3 Series			
Rockwell Automation			MELSERVO J4 Series			
GE Fanuc Automation			MELSEC EVON-10/200	M Seriec		
PANASONIC Electric Work	s		MCLOEC FX2N-10/20G	n Jeries		
YASKAWA Electric Corpora	ation		MELSEC iQ-F Series			
YOKOGAWA Electric Corpo	oration					
Schneider Electric Industri	es					
KDT Systems						
RS Automation		4				
PLC Setting[MELSE Alias Name :	C Q Series	;]				
Interface :	Computer Lin	ık	~			
Protocol :	MC Protocol	3C (Format	1) ~		Comm	Manual
String Save Mode : First LH HL Change						
Use Redundancy						
Operate Condition : AND) V	5	(Second)			
Change Condition *	Condition	5	(Jecond)		Edit	
Change Condition :						
Change Condition :	Sondidon					
Change Condition : 1	200	msec				
Change Condition : T	300	msec				
Change Condition : 1	300 C	msec				
Change Condition : 1	300 5 0	msec				
Change Condition : III Primary Option Timeout Send Wait Retry Station No	300 0 5 0 1 0 1 1 1 1 1 1 1 1 1 1	msec msec				
Change Condition : I T Primary Option Timeout Send Wait Retry Station No	300 (* 5 (* 0 (*)	msec msec				
Change Condition : 11 Primary Option Timeout Send Wait Retry Station No	300 (* 0 (* 5 (* 0 (*	n msec				
Change Condition : II I Primary Option Timeout Send Wait Retry Station No	300 3 00 3 000 3 00 3 00 3 00 3 00 3 00 3 000 3 000 3 000 3 000 3 000 3 000 3 0000 3 0000000000	n msec				
Change Condition : II I Primary Option Timeout Send Wait Retry Station No	300 (* 0 (* 5 (* 0 (*	n msec				

Settings			Contents	
ТОР	Model	Check the display and process of TOP to select the touch model.		
External device	Vendor	Select the vendor of the external device to be connected to TOP. Please select "MITSUBISHI Electric Corporation".		
	PLC	Select an external device to connect to TOP.		
		Model	Interface	Protocol
		MELSEC Q Series	Computer Link	Set Users
Supported Protocol				
		MC Protocol 3C (Format 1)	MC Protocol 3C (Format 4)	MC Protocol 4C (Format 5) (RS-485 not supported)
		Please check the system config connect is a model whose syste	guration in Chapter 1 to see if m can be configured.	the external device you want to



3. TOP communication setting

The communication can be set in TOP Design Studio or TOP system menu.

3.1 Communication setting in TOP Design Studio

(1) Communication interface setting

- $\blacksquare [Project] \rightarrow [Property] \rightarrow [TOP Setting] \rightarrow [HMI Setup] \rightarrow [Use HMI Setup Check] \rightarrow [Edit] \rightarrow [Serial]$
 - Set the TOP communication interface in TOP Design Studio.

Project Option				×
Change HMI[H] E Add PLC [A]	Change PLC[C] 🔀 Delete PLC[D]			
Date / Tin	me Sync. Screen Option Unit C	Convert		
SYS : RD1520X Option Module Setting Project O	ption Screen Change HmiSetu	p Global Lock & Touch P	roject Style Splash PLC Buff	er Sync.
- 🧊 FieldBus (0) - 💓 RFID (0)	HMI Setup	- 11		
V Comparison Compariso	ap Option		Initialization	Edit
PLC1 : MELSEC Q Series [/ Project S	Jetting			^
HMIDisat	ale=0 lame=New project			
Wireless (0)	een No. = 1			
USBDevice (0) Latch Set Communi	t=0~0 ication Error Message=0			
USBError StorageE	Message=0 FrorMessage=1			_
Database	eMessage=1			
Control Panel				
🔞 System 🛛 📩	Douicos 🧮	Saruica	Ontion	
System 🔛	Devices			
		Serial		×
	70	Serial Port:	COM1 -	
		oon nun non co	00001	
PLC Security	Date/Time	Signal Level		
		🖲 RS-232C 🔘 RS-42	22(4) 🔿 RS-485(2)	
		Devid Deter	00400 -	
		Baud Rate.	36400 •	
	•	Data Rit:	8 🗸	
		butu bitti		
Ethernet Serial	HDMI	Stop Bit:	1 -	
		Parity Bit:	None 🔹	
		Elawi	0.6.6	
		FIOW.		
	/Ping	Auto Search	Loopback Test	
Diagnostic File	Ping	ato ocuren	LOOPDUCK TOST	
Manage	r i i			
			Apply Cancel	

Items	ТОР	External device	Remarks
Signal Level	RS-232C	RS-232C	
(port)	RS-422/485	RS-422/485	
Baud Rate	38400		
Data Bit	8		
Stop Bit	1		
Parity Bit	None.		

 \ast The above settings are $\underline{examples}$ recommended by the company.

ltems	Description
Signal Level	Select the serial communication method between the TOP and an external device. (COM3 supports only RS-485.)
Baud Rate	Select the serial communication speed between the TOP and an external device.
Data Bit	Select the serial communication data bit between the TOP and an external device.
Stop Bit	Select the serial communication stop bit between the TOP and an external device.
Parity Bit	Select the serial communication parity bit check method between the TOP and an external device.



(2) Communication option setting

- $\blacksquare [Project] \rightarrow [Project properties] \rightarrow [PLC settings > COM > MELSEC Q Series]$
 - Set the options of the communication driver of MELSEC Q Series Computer Link in TOP Design Studio.

Change HMI[H] Vert Add PLC (A) Change PLC[C] X Delete PLC[D]
PC Setting PC Setting PC Setting PL Setting PL Setting Alas Name: PL Setting PL Seting
< >> Apply Close

Items	Settings	Remarks
Interface	Select "Computer Link".	Refer to "2. External
Protocol	Select the communication protocol between the TOP and an external device.	device selection".
TimeOut (ms)	Set the time to wait for a response from an external device.	
SendWait (ms)	Set the waiting time before sending a data request to an external device.	
Station No	Enter the prefix of an external device.	



3.2. Communication setting in TOP

* This is a setting method when "Use HMI Setup" in the setting items in "3.1 TOP Design Studio" is not checked.

■ Touch the top of the TOP screen and drag it down. Touch "EXIT" in the pop-up window to go to the main screen.



(1) Communication interface setting

■ [Main screen > Control panel > Serial]



Items	ТОР	External device	Remarks
Signal Level	RS-232C	RS-232C	
(port)	RS-422/485	RS-422/485	
Baud Rate	38400		
Data Bit	8		
Stop Bit	1		
Parity Bit	None.		

* The above settings are examples recommended by the company.

Items	Description
Signal Level	Select the serial communication method between the TOP and an external device. (COM3 supports only RS-485.)
Baud Rate	Select the serial communication speed between the TOP and an external device.
Data Bit	Select the serial communication data bit between the TOP and an external device.
Stop Bit	Select the serial communication stop bit between the TOP and an external device.
Parity Bit	Select the serial communication parity bit check method between the TOP and an external device.



(2) Communication option setting

 $\blacksquare [Control Panel] \rightarrow [PLC]$



Items	Settings	Remarks
Interface	Select "Computer Link".	Refer to "2. External
Protocol	Select the communication protocol between the TOP and an external device.	device selection".
TimeOut (ms)	Set the time to wait for a response from an external device.	
SendWait (ms)	Set the waiting time before sending a data request to an external device.	
Station No	Enter the prefix of an external device.	



3.3 Communication diagnostics

■ Check the interface setting status between the TOP and an external device.

- Touch the top of the TOP screen and drag it down. Touch "EXIT" in the pop-up window to go to the main screen.
- Check that the settings of the connected ports in [Control Panel] \rightarrow [Serial] are the same as the settings of the external device.

Diagnosis of whether the port communication is normal or not

- Touch "Communication diagnostics" in [Control Panel] \rightarrow [PLC].
- Check whether communication is connected or not.

Communication	Communication setting normal
diagnostics succeeded	
Error message	Communication setting abnormal
	- Check the cable, TOP, and external device settings. (Refer to Communication diagnostics sheet.)

■ Communication diagnostics sheet

- If there is a problem with the communication connection with an external terminal, please check the settings in the sheet below.

Items	Contents		Ch	eck	Remarks
System	How to connect the sys	stem	OK	NG	1 Cystem configuration
configuration	Connection cable name	•	OK	NG	1. System configuration
ТОР	Version information		OK	NG	
	Port in use		OK	NG	
	Driver name	OK	NG		
	Other detailed settings	OK	NG		
	Relative prefix	Project setting	OK	NG	
		Communication diagnostics	ОК	NG	2. External device selection 3. Communication setting
	Serial Parameter	Transmission Speed	ОК	NG	
		Data Bit	OK	NG	
		Stop Bit	OK	NG	
		Parity Bit	OK	NG	
External device	CPU name	OK	NG		
	Communication port na	OK	NG		
	Protocol (mode)		OK	NG	
	Setup Prefix		OK	NG	
	Other detailed settings		ОК	NG	4 External device setting
	Serial Parameter	Transmission Speed	ОК	NG	4. External device setting
		Data Bit	OK	NG	
		Stop Bit	OK	NG	
		Parity Bit	OK	NG	
	Check address range		OK	NG	6. Supported addresses



4. External device setting

For more detailed setting methods than described in this example, refer to the PLC user manual.

4.1 Setting in GX Developer

Step 1. Double-click [Parameter] > [PLC parameter] in the "GX Developer" project window to pop-up the [Q parameter setting] Dialog Box.

Step 2. Select the [I/O Assignment] tab in the [Q parameter setting] Dialog Box.

Step 3. Set the [Type] of slots equipped with a communication module to Intelligent" in the [I/O Assignment(*)] box.

Step 4. Click Select in the [I/O Assignment(*)] box.

Set the Module type and Module name as a corresponding module in the Module selection window, and then click OK. Q parameter setting

l	Slot	Туре		Model name	Points	StartXY		
ļ	PLC	PLC	-					
l	0(*-0)	Intelli,	•				Select	
	- Modul	e selection —			5 A			
	Mod	ule type	Serial Co	mmunication/Mod	em Interface	Module	1	•

Step 5. Set each channel in the automatically open Switch SettingNo window.

In general cases, select 38400 bps, MC protocol (Type 1) like CH1.

In case of requiring high-speed communication, select 115200 bps. MC protocol (Type 5) does not support RS485 communication.

ltem		CH1	CH2	
	Operation setting	Independence	Independence	
	Data Bit	8	8	
	Parity Bit	None	None	
Transmission	Odd Even Parity	Odd	Odd	
Setting	Stop Bit	1	1	=
	Sum Check Code	Exist	Exist	
	Online Change	Enable	Enable	
	Change	Enable	Enable	
Communic	ation rate setting	38400bps	38400bps	
Communicat	ion protocol setting	MC protocol (Type1)	MC protocol (Type1)	
Station numb	per setting (0 to 31)	0		

Step 6. Send the set parameters to [Online] > [Write to PLC], and reset the PLC.



4.2 Setting in GX Works2

Step 1. Double-click [Parameter] > [PLC parameter] in the "GX Works2" project window to pop-up the [Q parameter setting] Dialog Box.

Step 2. Select the [I/O Assignment] tab in the [Q parameter setting] Dialog Box.

Click New Module in the [I/O Assignment(*)] box.

Set the Module type and Module name as a corresponding module in the Module selection window, and then click OK. Q Parameter Setting

No.	Slot	Туре		Model Name	Points	Start XY	•	Switch Settin
0	PLC	PLC	-			<u></u>		Data da da catta
1	0(*-0)		•			<u> </u>	-	Detailed Setti
2	1(*-1)	-	•			•	-	Select DLC to
3	2(*-2)		-		-	, 	-	Selectrice typ
4	3(*-3)		-		-		-	New Module
5	4(~-4)	- 1	Now Madula					-X
6	5(*-5)	-	New Module			§		
Assig Leav	ining the I/O a ing this setting	ddress is not necessary as t blank will not cause an erro	Module T Module N	ype Serial Communication	Modem Interface Modu	le _	•	
Assig Leav Base	ning the I/O a ing this setting Setting(*1) —	ddress is not necessary as t blank will not cause an erro	Module T Module N	ype Serial Communication	Modem Interface Modu	le	•	
Assig Leav Base	ning the I/O a ing this setting Setting(*1) Main	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N — Mount Pos	ype Serial Communication Name QJ71C24N	Modem Interface Modu	le _	-	
Assi <u>c</u> Leav Base	ing the I/O a ing this setting Setting(*1)	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N – Mount Pos Base No.	ype Serial Communication lame QJ71C24N ition Mounted	Modem Interface Modu Slot No. 0	ile	• 1/0 #	Assignment
Assi <u>c</u> Leav Base	ning the I/O a ing this setting Setting(*1)	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N Mount Pos Base No.	ype Serial Communication lame Q371C24N ition	Modem Interface Modu	Acknowledge	• I/O #	Assignment
Assig Leav Base Ext Ext	ning the I/O a ing this setting Setting(*1) Main Base1 Base2 Base3	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N Mount Pos Base No.	ype Serial Communication lame QJ71C24N ition - Mounted fy start XY address 0000	Modem Interface Modu Slot No. 0 :	Acknowledge 2 points]	• 1/0 #	Assignment
Assig Leav Base Ext Ext Ext	ning the I/O a ing this setting Setting(*1) Main Base1 Base2 Base3 Base4	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N Mount Pos Base No.	ype Serial Communication Name QJ71C24N Sector Mounted Sector Mounted	Modem Interface Modu Slot No. 0 :: (H) 1 Slot Occupy [3:	Acknowledge 2 points]	• I/O #	Assignment
Assig Leav Base Ext Ext Ext Ext	ning the I/O a ing this setting Setting(*1) Main Base1 Base2 Base3 Base4 Base5	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N Mount Pos Base No.	ype Serial Communication Name QJ71C24N ition - Mounted Ify start XY address 0000	Modem Interface Modu Slot No. 0	Acknowledge 2 points]	• I/O #	Assignment
Assig Leav Base Ext Ext Ext Ext Ext	ning the I/O a ing this setting Setting(*1) Main Base1 Base2 Base3 Base4 Base5 Base6	ddress is not necessary as t blank will not cause an erro Base Model Name	Module T Module N Mount Pos Base No. Speci	ype Serial Communication Name QJ71C24N ition - Mounted ify start XY address 0000	Modem Interface Modu Slot No. 0	Acknowledge 2 points]	• I/O #	Issignment

Step 3. Set each channel in the [Intelligent Function Module] > [Module Name] > Switch Setting window of the project window. In general cases, select 38400 bps, MC protocol (Type 1) like CH1.

In case of requiring high-speed communication, select 115200 bps. MC protocol (Format 5) does not support RS485 communication.

€ @ @ (Para Inte	am ellig 00	eter gent Function N 00:QJ71C24N Switch Setting	/lodule		
		Switch Setting 0000:QJ71C24N		00:QJ71C24N		X
				Item	CH1	CH2
				Operation setting	Independent	Independent
				Data Bit	8	8
	i			Parity Bit	None	None
	Gl		Transmission	Even/odd parity	Odd	Odd
÷	Pre		Setting	Stop bit	1	1
	PC			Sum check code	Exist	Exist
- <u>-</u>				Online Change	Enable	Enable
±				Setting modifications	Enable	Enable
····			Communica	tion rate setting	38400bps	38400bps
			Communicatio	on protocol setting	MC protocol (Format 1)	MC protocol (Format 1)
			Station number	er setting (0 to 31)	0	

Step 4. Send the set parameters to [Online] > [Write to PLC], and reset the PLC.



5. Cable table

This chapter introduces a cable diagram for normal communication between the TOP and the corresponding device.

(The cable diagram described in this section may differ from the recommendations of "Mitsubishi Electric Corporation")

5.1. Cable table 1

■ RS-232C (1:1 connection)

CC	M				PI	LC
Pin	Signal	Pin	Cable connection	Pin	Signal	Pin
arrangement*Note 1)	name	number		number	name	arrangement*Note 1)
1 5	CD	1		1	CD	5 1
(° °)	RD	2		2	RD	(° °)
	SD	3		3	SD	
Based on	DTR	4	•	4	DTR	Based on
communication	SG	5		5	SG	communication
cable connector	DSR	6	•	6	DSR	cable connector
front,	RTS	7	•	7	RTS	front,
D-SUB 9 Pin male	CTS	8	•	8	CTS	D-SUB 9 Pin male
(male, convex)		9		9		(male, convex)

*Note 1) The pin arrangement is as seen from the connecting side of the cable connection connector.

■ **RS-422** (1:1 connection)

COM					PLC
Pin	Signal	Pin	Cable connection	Signal	Din arrangement
arrangement*Note 1)	name	number		name	
1 5	RDA	1		SDA	
		2	•	SDB	
		3 RDA			
Based on	RDB	4	└─── ┥ │ १ ────	RDB	
communication	SG	5		SG	RDB FG FG RDA
cable connector	SDA	6	•		
front,		7			
D-SUB 9 Pin male		8			
(male, convex)	SDB	9	•		

*Note 1) The pin arrangement is as seen from the connecting side of the cable connection connector.

■ RS-485 (1:1 connection)



*Note 1) The pin arrangement is as seen from the connecting side of the cable connection connector.



RS-422 (1:N connection) – Refer to 1:1 connection to connect in the following way.

TOP	Cable connection and signal direction	PLC	Cable connection and signal	PLC
Signal name		Signal name	direction	Signal name
RDA		SDA		SDA
RDB		SDB		SDB
SDA		RDA		RDA
SDB		RDB		RDB
SG		SG		SG

RS-485 (1:N/N:1 connection) – Refer to 1:1 connection to connect in the following way.

TOP	Cable connection and signal direction	PLC	Cable connection and signal	PLC
Signal name		Signal name	direction	Signal name
RDA		SDA	- P	SDA
RDB		SDB		SDB
SDA	╞╼╎╴╶╴╵┕╌╴	RDA	╞━┥│ │┕━─	RDA
SDB	├ ─�	RDB	<u> </u>	RDB
SG		SG		SG

5.2. Cable table 2

■ RS-232C (1:1 co	nnection)					
COM1 / COM2					Р	LC
Pin	Signal	Pin	Cable connection	Pin	Signal	Pin
arrangement*Note 1)	name	number		number	name	arrangement*Note 1)
	CD	1	•	1	RD	6 4 2
1 5	RD	2		2	SD	
	SD	3	• •	3	SG	
6 9	DTR	4		4		507
Based on	SG	5	├ ─── ↓ ₱─	5	DSR	3
communication	DSR	6		6	DTR	Based on
cable connector	RTS	7				communication
front,	CTS	8				cable connector
D-SUB 9 Pin male		9				front,
(male, convex)						D-SUB 6 Pin male
						(male, convex)

*Note 1) The pin arrangement is as seen from the connecting side of the cable connection connector.



6. Supported addresses

The devices available in TOP are as follows:

The device range (address) may differ depending on the CPU module series/type. The TOP series supports the maximum address range used by the external device series. Please refer to each CPU module user manual and be take caution to not deviate from the address range supported by the device you want to use.

Device	Bit Address	Word Address	Word Address NOTE	32 BIT
Input Relay	X0000 ~ X1FFF (HEX)	X0000 ~ X1FF0 (HEX)	X***0 *Note 1)	
Output Relay	Y0000 ~ Y1FFF (HEX)	Y0000 ~ Y1FF0 (HEX)	Y***0 *Note 1)	
Internal Relay	M0000 ~ M61439	M0000 ~ M61424	M0000 + 16*n *Note 2)	
Special Relay	SM0000 ~ SM2047	SM0000 ~ SM2032	SM0000 + 16*n *Note 2)	
Latch Relay	L0000 ~ L32767	L0000 ~ L32752	L0000 + 16*n *Note 2)	
Annunciator	F0000 ~ F32767	F0000 ~ F32752	F0000 + 16*n *Note 2)	
Edge Relay	V0000 ~ V32767	V0000 ~ V32752	V0000 + 16*n *Note 2)	
Step Relay	S0000 ~ S8191	S0000 ~ S8176	S0000 + 16*n *Note 2)	
Link Relay	B0000 ~ BEFFF (HEX)	B0000 ~BEFF0 (HEX)	B***0 *Note 1)	
Special Link Relay	SB0000 ~ SB7FF0 (HEX)	SB0000 ~ SB7FF0 (HEX)	SB***0 *Note 1)	
Timer (contact)	TS00000 ~ TS25471	TS00000 ~ TS25456		
Timer (coil)	TC00000 ~ TC25471	TC00000 ~ TC25456		
Aggregate Timer (contact)	SS00000 ~ SS25471	SS00000 ~ SS25456		
Aggregate Timer (coil)	SC00000 ~ SC25471	SC00000 ~ SC25456		/H *Note 3)
Counter (contact)	CS00000 ~ CS25471	CS00000 ~ CS25456		
Counter (coil)	CC00000 ~ CC25471	CC00000 ~ CC25456		
Timer (current value)	TN00000.0 ~ TN25471.15	TN00000 ~ TN25471		
Aggregate Timer (current value)	SN00000.0 ~ SN25471.15	SN00000 ~ SN25471		
Counter (current value)	CN00000.0 ~CN25471.15	CN00000 ~ CN25471		
Data Dagistar	D0000000.0 ~ D4212223.15	D0000000 ~ D4212223	Binary Protocol	
Data Register	D000000.0 ~ D999999.15	D000000 ~ D999999	ASCII Protocol	
Special Data Register	SD0000.0 ~ SD2255.15	SD0000 ~ SD2255		
Link Register	W000000.0 ~ W4045FF.F	W000000 ~ W4045FF]
Link Special	SW0000.0 ~ SW7FFF.F	SW0000 ~ SW7FFF]
Index	Z00.0 ~ Z19.15	Z00 ~ Z19]
File Register		Custom range]

*Note 1) For bit addresses with hexadecimal "0~F" notations, use the initial 0 bit as the word address

*Note 2) When using a bit address that uses decimals, use a word address in units of "16"

*Note 3) The lower 16 BIT data of 32 BIT data is saved in the address whose screen has been registered, and the upper 16 BIT data is saved in the address next to the address whose screen has been registered.

Ex. When saving 32BIT data hexadecimal data 12345678 in address D00100, it is saved to 16BIT device address as follows:

	Items	32BIT	16	BIT
	Address	D00100	D00100	D00101
_	Input data (hexadecimal)	12345678	5678	1234