



MCU-002 / MCU-004 / MCU-005 Remote Control Units

This document describes specifications, functions, and installation of these control units.

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1. Specifications

1.1. MCU-002 / MCU-004 / MCU-005 – Summary

Item	MCU-002	MCU-004	MCU-005
Appearance			
Release	2013	2016	2018
Compatible Displays	NavNet TZtouch v3.12	NavNet TZtouch v5.01	NavNet TZtouch2 v6.21
and Versions	NavNet TZtouch2 v2.03	NavNet TZtouch2 v3.01/4.01	(Not for NavNet TZtouch)
Keys	10 keys, no rotary knob	10 keys including rotary knob	17 keys including RotoKey™
Interface	USB 2.0	USB 2.0	Ethernet,
		Based on MCU-002, the rotary knob	PoE, Alternative A (Type A)
Highlight	Compact keyboard	is available. Controlled displays can	More keys than MCU-004,
		be switched with [Switch Disp.] key	Accessible to NavNet TZtouch2
		and Edge Swipe can be activated	only, via Ethernet
		with the TZTL12F/15F/2BB. Buzzer	The TZT2BB is compatible from
		sound is also available.	the initial version 5.11. The
Remarks	-	-	TZTL12F/15F from v6.21.

1.2. Technical Specifications

Item	MCU-002	MCU-004	MCU-005
Interface	USB2.0	USB2.0	Ethernet
			PoE, Alternative A (Type A)
Cable Length	Fitted with 2 m cable (USB)	Fitted with 3 m cable (USB)	Max. 10 m from PoE hub or
			POE injector
Power	Consumption: 20 mA (max),	Consumption: 270 mA (max),	Consumption: 0.1 A at 48
	power supply via USB port	power supply via USB port	VDC via PoE
Water Proof	Front: IP56 / Rear: IP22	Front: IP56 / Rear: IP22	Front: IP56 / Rear: IP20
Operating Temperature	-15 to +55℃	-15 to +55℃	-15 to +55℃
Relative Humidity	94% or less at 40 $^\circ\!\mathrm{C}$	93% or less at 40 $^\circ\!\!\mathrm{C}$	95% or less at 40°C
	(without internal fogging)	(without internal fogging)	(without internal fogging)
Mounting	Flush mount from front	Flush mount from front	Flush mount from front

2. Operation – User Interface

2.1. MCU-002 Keys and Functions – Basic Operation

The **MCU-002** consists of **10 hardware keys** to control the TZT9/14/BB and TZTL12F/15F/2BB as described below.

MCU-002	No	Keys	Descriptions
	(1)	STBY / AUTO	Sets the NAVpilot-300/711C to STBY or AUTO modes
	(2)	CENTER	Sets the ship in the center of the screen
	(3)	CURS / SCRL	Switches the joystick functions between Cursor and Scroll
AUTO CENTER SCRL	(4)	Joystick	Moves a cursor in 8 directions
4	(5)	— / ▲ (UP)	Acts as rotating RotoKey [™] clockwise
	(6)	+ / ▼ (DOWN)	Acts as rotating RotoKey [™] counterclockwise
5	(7)	ENT	Acts as pushing RotoKey™
	(0)	CANCEL & MOB	Short presss to cancel
CANCEL FUNC HOME	(8)		Long press to enter an MOB point
	(9)	FUNC	Acts as Function Gesture
	(10)		Short press to access the Home page
8 9 10			Long press to open the Brilliance control box

2.2. MCU-004 Keys and Functions – Basic Operation

The MCU-004 consists of 10 hardware keys to control the TZT9/14/BB and TZTL12F/15F/2BB as described below.

MCU-004 No		Keys	Descriptions
	1	STBY / AUTO	Sets the NAVpilot-300/711C to STBY or AUTO modes
	2	HOME & BRILL	Short press to access the Home page
	2		Long press to open the Brilliance control box
	3	Switch Disp.	Switches an active display
FUNC FUNC	4	FUNC	Acts as Function Gesture
5	5	CURS / SCRL	Switches the joystick functions between Cursor and Scroll
7	6	CENTER	Sets the ship in the center of the screen
	7	Rotary Knob	Acts as rotating RotoKey [™]
	8	Joystick	Moves a cursor in 8 directions
	0	9 Edge	TZT9/14/BB: Same as pushing RotoKey [™] key
	9		TZTL12F/15F/2BB: Activates Edge Swipe functions
	10		Short presss to cancel
	10		Long press to enter an MOB point

2.3. MCU-004 Keys and Functions – Differences from MCU-002

The MCU-004 keys work almost the same as the MCU-002 except for the following unique keys and features.

No	Uniqueness with MCU-004 – Overview	MCU-004 vs. MCU-002		
1	A buzzer is built in.			
2	The [Switch Disp.] key switches an active display when there are	FUDURO		
2	multiple MFDs in the network.	HOME HOME		
2	A big rotary knob offers a friendly operation similar to the RotoKey™			
2	of TZT9/14/BB.	COME CENTER AND ENTER SCR.		
	The [Edge] key works differently between TZT9/14/BB and			
	TZTL12F/15F.			
	<u>TZT9/14/BB</u>			
	It works the same as the [ENT] key of MCU-002			
	such as showing RotoKey [™] menus and selecting the RotoKey [™] or contextual menus.			
4				
	TZTL12F/15F			
	It activates the Edge Swipe functions. Instead of swiping the screen	from the top, bottom, right, or left edge,		
	press the [Edge] key and move the joystick in the same direction as you edge-swipe with your finger.			
	[Edge] + Joystick [Up] : Layer			
	[Edge] + Joystick [Down] : Quick Access page			
	[Edge] + Joystick [Right] : Data Box			
	[Edge] + Joystick [Left] : Universal setting options			

(1) Buzzer

A buzzer is built in. When an alarm is generated on the display, the sound will be heard at the MCU-004.

(2) Switch Disp.

The [Switch Disp.] key switches an active display when there are multiple MFDs in the network.

In the example at right, there are two (2) displays. The MCU-004 is connected to Display No. 1. By default, the MCU-004 controls Display No. 1. Pressing the [**Switch Disp.**] key, the MCU-004 now controls Display No. 2. **Section 4** describes how to group controllable displays in the network.



(3) Large Rotary Knob & Joystick



The large rotary knob offers a friendly operation for zoom in/out similar to the RotoKeyTM of TZT9/14/BB. The big joystick makes it easier to move the cursor. With TZTL12F/15F v3.01 and higher, pushing the joystick selects the highlighted items in contextual menus, settings, Layer, etc.

(4) Edge Key

The [Edge] key works differently between TZT9/14/BB and TZTL12F/15F.

<u>TZT9/14/BB</u>

It works the same as the [**ENT**] key of MCU-002 such as showing RotoKey[™] menus and selecting the RotoKey[™] or contextual menus.

TZTL12F/15F

(1) It activates the Edge Swipe functions. Instead of swiping the screen from the top, bottom, right, or left edge, press the [Edge] key and move the joystick in the same direction as you Edge Swipe with your finger.



-			all -
Owl	and the second second	Tide Heights	
		Tidal Currente	
Satelite Photo		Theres	100
Depth Diading	100	Redet	
Rate Overlay	1000		COMPANY OF
Radar Birgs	100	Prints	100
Guard Zone 1	and a	Arti Targeta	101
Gaard June 2		And a fargets	100

(Sample Screen: Layer)	
[Edge] + Joystick [Up]	: Layer
[Edge] + Joystick [Down]	: Quick Access page
[Edge] + Joystick [Right]	: Data Box
[Edge] + Joystick [Left]	: Universal setting options

(2) The [Edge] key also works to select the highlighted items in contextual menus, etc. like pushing the joystick.

Tip - TZTL12F/15F v3.01 or later with MCU-002 for Edge Swipe

With the **MCU-002** connected to the **TZTL12F/15F v3.01**, the MCU-002 [**ENT**] key works the same as the MCU-004 [Edge] key. **Edge Swipe** functions are accessible by pressing the MCU-002 [**ENT**] key and moving the joystick.



2.4. MCU-005 Keys and Functions – Basic Operation

The MCU-005 consists of full keys to control the TZTL12F/15F/2BB as described below.



No	Key	Descriptions
1	Power status	The LED shows the status of MCU-005 power.
2	SCROLLING	Chart, Radar, and Fish Finder screens are scrolled.
3	SHIP/3D	Short press: The screen goes back to the vessel position, i.e. Center Vessel, Center Radar,
		Cancel History.
		Long press: The chart screen goes into the 3D mode.
4	RANGE	Chart, Radar, and Fish Finder ranges are adjusted.
5	RotoKey™	Chart, Radar, and Fish Finder ranges are adjusted by rotating the knob.
		Menu items can be selected by rotating and pushing the knob.
6	STBY/AUTO	Short press: The AUTO mode of NAVpilot-700/300 is activated.
		Long press: The AUTO mode of NAVpilot-700/300 is deactivated (STBY).
7	POINTS/ROUTE	Short press: A point is entered at the cursor position.
		Long press: A route is created from the cursor position.
8	CURSOR	The cusor can be moved.
9	Left Click	Clicking the left-click key pops up a contextual menu or select a menu item.
10	Right Click	The righ-click key activates the Function Gesture.
11	Edge Swipe	The Edge Swipe function is activated: Press this key and press left/right/top/bottom arrows on
		the CURSOR key to activate one of the Edge Swipe functions.
12	CTRL	An operational screen is switched from one to another when multiple screens are connected to
		the TZT2BB or multiple TZTL12F/15F and TZT2BB are networked.
13	CANCEL/MOB	Short press: Current operation is cancelled.
		Long press: An MOB point is entered.
14	HOME/BRILL	Short press: The HOME page opens.
		Long press: The Brilliance control window opens.

15	MENU	The Settings page opens.
16	GAIN/TX	Short press: Gain/Sea/Rain of Radar and Gain of Fish Finder are adjusted in combination with
		the RotoKey™.
		Long press: Radar or Fish Finder is set to TX or STBY.
17	EVENT	An event is entered to the own ship position.

2.5. Cross Cursor

While the cursor is operated with the joystick, a cross cursor is shown on the screen.



2.6. General Limitations and Notes

(1) Limitation in Drag by Joystick (MCU-002 and MCU-004)

The joystick has **NO** "drag" function. The guard zone setting of Radar, which requires to be adjusted by drag, will not be available with the MCU-004 joystick. This operation should be made by touch operations or with a generic mouse/trackball unit.

(2) Limitation in 3D Mode – Pan/Tilt (MCU-002 and MCU-004)

You can turn the screen mode into the 3D mode by selecting [3D Mode] from the contextual menu. However, **you cannot pan/tilt the chart with the MCU-002/4**, because sliding the screen with two fingers is the only way to pan/tilt it. The 3D chart will always be at the default angle as shown at right. Or if you have paned/tilted the chart with two fingers before, the screen will be in the previously set angle.





(3) Note on Menu – Second Layer (MCU-002 and MCU-004 with TZT9/14/BB Only)

The first layer of the Menu can also be scrolled with the $[-/ \blacktriangle]$ and $[+/ \lor]$ keys, but the second layer cannot. We recommend that the arrow icons on the top and bottom of the layer be pressed with the joystick to scroll the second layer.



(4) Note on Virtual Keyboard (MCU-002, MCU-004, and MCU-005)

To enter characters and numbers with a virtual keyboard, use the joystick or the RotoKey: Place the cursor on a required key and push the joystick. Or use the Rotokey to highlight the required key and push the RotoKey in.

(5) Note on Active Window (MCU-002, MCU-004, and MCU-005)

In the split screen mode, even if you place a cursor on a different screen, the window will <u>not</u> be active. Make sure to press any key, such as joystick, on the screen similar to how you tap the screen to activate it.

(6) Note on Power On (MCU-002, MCU-004, and MCU-005)

It is <u>not</u> possible to turn on the display with the MCU-002/4/5. Make sure to press the power key of the TZT9/14/BB and TZTL12F/15F/BB. However, the power can be turned off with the operation of [**HOME & BRILL**] key: Press [**HOME & BRILL**] key and select [**Power Off This Device**] or [**Power Off Network**] with the joystick or rotary knob.









3. Installing MCU-002 and MCU-004

3.1. Dimensions



3.2. Flush Mounting



The MCU-002 and MCU-004 can be **flush mounted** on a console from the **front side** as shown below.

3.3. Interconnection

The MCU-002 and MCU-004 can be used with the TZT9/14/BB and TZTL12F/15F/2BB by **USB** connection. Connect the MCU-002/004 to the USB port of the TZT9/14/BB and TZTL12F/15F/2BB as shown in the following examples. The image of MCU-004 is used in these illustrations.



Notes:

(1) A maximum of two (2) sets of MCU-002/004 can be connected to one (1) display via USB.

(2) The maximum current consumption of the MCU-004 is 270 mA. To use a USB hub to connect multiple sets of MCU-004, select a USB hub considering its supply current.

Example 1

A USB hub without external power supply may be used to connect multiple sets of MCU-004, when it has enough supply current for the connected units.

Example 2

A USB hub with external power supply may be used to supply enough power to multiple sets of MCU-004.



3.4. MCU-004 with TZT2BB and TZTL12F/15F

In this example, the TZT2BB with MCU-004 and TZTL12F/15F are networked. **Make sure that the <u>TZTL12F/15F</u>** <u>version is 6.01</u> or later in order to switch the controllable display with the [Switch Disp.] key on the MCU-004. The controllable display will <u>NOT</u> be switched from the TZT2BB to the TZTL12F/15F if the version is 5.03 or earlier.



4. Installing MCU-005

4.1. Dimensions

100



PoE Hub Requirement (if not using the supplied POE injector)

A PoE hub for the MCU-005 should be compatible with Alternative A (Type A).

<u>PoE</u> stands for **<u>Power over Ethernet</u>**. In additon to data comunication, power is supplied through an Ethernet cable. Power feeding of PoE has two (2) types: <u>Alternative A (Type A)</u> or **Alternative B (Type B)**.

Alternative A (Type A):

<u>Alternative A</u> is also described as <u>Type A</u>. While pins #1/2/3/6 of Ethernet cable are used for data communications, the same pins are used to feed the power to a connected device. <u>The MCU-005 is compatible with this type.</u>

E.g. Manufacturer : **NETGEAR** Model : **GS108PE**



Alternative B (Type B):

<u>Alternative B</u> is also described as <u>Type B</u>. While pins #1/3/4/6 of Ethernet cable are used for data communications, the other pins #4/5/7/8 are used to feed the power to a connected device. The MCU-005 is <u>NOT</u> compatible with this type.

5. Grouping MCU-004 and MCU-005

With one (1) MCU-004 connected to one of the displays or one (1) MCU-005 networked in the Ethernet, <u>the</u> controllable display can be switched in the network.

Note:

The MCU-004 works with both NavNet TZtouch (TZT9/14/BB) and TZtouch2 (TZTL12F/15F/2BB), and the MCU-005 with NavNet TZtouch2 (TZTL12F/15F/2BB) only. When the MCU-005 is installed in the integrated network of NavNet TZtouch and TZtouch2 MFDs, the MCU-005 controlls the TZTL12F/15F/2BB only.

5.1. MCU-004

As an example, displays at the main bridge and fly bridge should be operated independently. In this case, displays should be separated in two (2) groups. In the following example, a total of four (4) sets of TZTL12F/15F displays are installed at the main and fly bridges and networked with each other. One each of MCU-004 is connected to the TZTL12F/15F at both bridges. The MCU-004 at the fly bridge will be set to control the displays at the fly bridge, while the MCU-004 at the main bridge will be set to control the displays at the main bridge.



5.2. MCU-005

In the following example, one (1) TZT2BB processor is connected with dual displays and networked with two (2) TZTL12F/15F v6.21. Two (2) MCU-005 units are installed at port and starboard sides and customized to control the displays at the port and starboard respectively.



5.3. Grouping Controllable Displays

Grouping procedures are described below based on the configuration in <u>Section 5.1</u> (MCU-004). The same procedures also apply to the MCU-005 network.

Preparation – Check in Advance

- (1) All the displays in the network are turned on.
- (2) All the MCU-004 units to be used are connected.
- (3) Unique nicknames are assigned to all the displays in order to identify the display location easily.

Setting Procedures

 (1) Access [Settings] - [Initial Setup] - [Remote Controller Configuration].
With the MCU-004 detected, the [Remote Controller

Configuration] setting will be available.

- (2) Select [Remote Controller Configuration] and see that the setup page shown at right appears.
- (3) Make settings referring to the table below.

<	Remote Controller Configura			ation
CURRENT HARDWARE INFORMATION				
MCU-004 Currently Used		MCU2		Ľ,
MFD Currently Used	TZTL12F	FB_LEFT		2
INSTRUCTIONS				
Set the switching order for Remote Control Unit switch each time its CONTROL key	each MFD : les active di is pressed	splay in thi	s order	
MCU2 - TZTL12F_FB_LEFT				
TZTL12F_FB_LEFT Switch 0	rder	1	>	
TZTL12F_FB_RIGHT Switch Order		2	>	
TZTL15F_MB_LEFT Switch (Off	>	4	
TZTL15F_MB_RIGHT Switch	Order	Off	>	
MCU4 - TZTL15F_M8_LEFT				5
TZTL12F_FB_LEFT Switch 0	rder	Off	>7	
TZTL12F_FB_RIGHT Switch	Order	Off	>	
TZTL15F_MB_LEFT Switch Order		1	>	6
TZTL15F_MB_RIGHT Switch	Order	2	>	

No	Descriptions	
	[MCU Currently Used] represents the MCU-004 that you are operating now. The multiple MCU-004 units in	
	the network will be assigned with unique numbers such as [MCU1], [MCU2], etc. In this example, [MCU2] is in	
T	use, but the indication will change as you operate a different MCU-004. When the MCU-004 is connected via a	
	USB-hub, the numbering rule depends on the hub's specifications.	
ſ	[MFD Currently Used] represents the nickname of the own display that opens the [Remote Controller	
Z	Configuration] . In this example, this menu is opened on the [TZTL12F_FB_LEFT].	
2	[MCU2 - TZTL12F_FB_LEFT] represents that the [MCU2] is physically connected to the	
3	[TZTL12F_FB_LEFT].	
	With these setting options, the controllable display(s) with the [MCU2], as well as the switching order of	
	active displays can be set. You can see that all the nicknames of available displays in the network are listed.	
	The numbers [1], [2] represent the switching order of the active display when the [Switch Disp.] key is	
4	pressed. [Off] represents that the [MCU2] will \underline{NOT} access the display(s).	
	In this example, the [MCU2] is set to control two displays at the fly bridge, but no access to the other two displays	
	at the main bridge. When the [Switch Disp.] key is pressed, the [MCU2] switches the active display in the order	
	of [TZTL15F_FB_LEFT] first and [TZTL15F_FB_RIGHT] next.	
5	You can see that the other MCU-004 named [MCU4] is physically connected to the [TZTL15F_MB_LEFT].	
6	In this example, the [MCU4] accesses the main bridge displays only and switches the active display in the order	
6	of [TZTL15F_MB_LEFT] first and [TZTL15F_MB_RIGHT] next.	

(4) Select [Confirm] to save the settings.

6. Limitation by Display Versions

Make sure that the latest software versions of NavNet TZtouch and TZtouch2 are installed to use the MCU-004 (for NavNet TZtouch/TZtouch2) and MCU-005 (for NavNet TZtouch2). Old versions have limitations in available functions as shown in the following table.

NavNet TZtouch with MCU-004	Remarks
V4.21 or earlier (released in 2016)	Buzzer sound will NOT be generated from the MCU-004.
	[Switch Disp.] key will NOT work.
	The Grouping function is NOT available.
V5.01 to 5.03 (released in 2017)	Buzzer sound, [Switch Disp.] key, and Grouping function are
	available. With the MCU-004 connected to the TZT2BB, the
	controllable display will <u>NOT</u> switch to the TZTL12F/15F.
V6.21 or later (released February 2019)	With the MCU-004 connected to the TZT2BB, the controllable
	display can switch to the TZTL12F/15F.

NavNet TZtouch2 with MCU-004 and MCU-005	Remarks	
V3.01 (released in 2016)	The MCU-004 is connectable from the version, but the	
	Grouping function is NOT available.	
V4.01 (released in 2016)	The Grouping function is available with the MCU-004 .	
V6.21 or later (released February 2018)	The MCU-005 is networkable. The Grouping function is	
	available for both MCU-004 and MCU-005.	

FURUNO PACKING LIST FOR MCU005

Bo	x 1 - MCU005	Wt: 6 lbs. Dim:	15" x 11" x 8"
	Part No.	<u>Description</u>	<u>Quantity</u>
1	MUC005	Control Unit	1
2	MCU-PWR-INJ	POE Power Injector	1
3	н	LAN Cable Assy 5m	1
4	001-167-890-10	LAN Cable Assy 5m	1
5	100-340-471-10	Panel Remover	1
6	100-340-742-10	Gasket	1
7	000-158-850-10	Tapping Screw 4x20	4
8	C42-017-18Z	Installation Instructions	1
9	C42-007-03Z	Flush Mount Template	1





MCU005 Update Procedure

- 1. Make sure that the MCU-005 power is OFF.
- 2. Connect a PC to the MCU-005 using the proper POE injector through a switching HUB. Leave cable removed from the MCU005 until later step.



- 3. Turn on the PC, and make sure that all firewall and anti-virus software are shut off.
- 4. Open Network and Internet setting.



5. Go under Ethernet tab and change adapter setup.

Settings			- Ø ×
வ் Home	Ethernet		
Find a setting	Ethernet	->	Related settings Change adapter options
Network & Internet	토그 furuno.com Connected		Change advanced sharing options
🔁 Status	Ethernet		Network and Sharing Center
مار Wi-Fi	Not connected		Windows Firewall
😰 Ethernet			
			Have a question?
P Dial-up			Get help
* VPN			
			Make Windows better
♣ Airplane mode			Give us feedback
⁰ I ⁰ Mobile hotspot			
ල Data usage			
Proxy			

6. Click the connection for the Ethernet port connected to MCU005, then open "Properties"



7. Select "Internet Protocol Version4 (TCP/IPv4)", and open "Properties"

Ethernet Properties	×		
Networking Sharing			
Connect using:			
Intel(R) Ethemet Connection (4) I219-LM			
Configure			
This connection uses the following items:			
Client for Microsoft Networks			
File and Printer Sharing for Microsoft Networks			
🗹 🏪 Npcap Packet Driver (NPCAP)			
🗹 🐙 QoS Packet Scheduler			
Internet Protocol Version 4 (TCP/IPv4)			
Microsoft Network Adapter Multiplexor Protocol			
Microsoft LLDP Protocol Driver	-		
< >			
Install Uninstall Properties	\supset		
Description			
Transmission Control Protocol/Internet Protocol. The default			
wide area network protocol that provides communication			
across diverse interconnected networks.			
OK Cance	!		

8. Change IP address of PC to [172.31.xxx.xxx]. (If recommend, [172.31.200.100])

Internet Protocol Version 4 (TCP/IPv4) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatical	У		
• Use the following IP address:			
IP address:	172 . 31 . 200 . 100		
Subnet mask:	255.255.0.0		
Default gateway:			
Obtain DNS server address automatically			
• Use the following DNS server addresses:			
Preferred DNS server:			
Alternate DNS server:			
Ualidate settings upon exit	Advanced		
	OK Cancel		

9. Copy all files to the PC and unzip it.

Name	Date modified	Туре	Size
IDCODE.SYS	07/30/2019 4:01 PM	System file	1 KB
MCU005.BIN	07/30/2019 4:01 PM	BIN File	748 KB
NWLOADER.BIN	07/30/2019 4:01 PM	BIN File	109 KB
📧 nwuppg.exe	07/30/2019 4:01 PM	Application	52 KB
💿 setup.bat	08/02/2019 10:30	Windows Batch File	1 KB

10. Execute [setup.bat], and the following window shows up.

I	C:\WINDOWS\system32\cmd.exe	—	×
N C	twork program loading(NWUPPG) version 4.01 pyright(c) FURUNO ELECTRIC CO.,LTD. 2002-2005 (T.K & T.Y)		^
>:	my IPaddress=172.31.200.100		
			~

- 11. Turn on the MCU-005 by connecting the LAN cable to a PoE hub or injector.
- 12. The update process will automatically start. Tap any key to close the window after the process finishes.

Note: If an ERROR appears on the window, the update has failed and MCU005 is no longer usable with system until you it has been successfully updated. Please try a different PC and re-update.

C:\WINDOWS\system32\cmd.exe

Network program loading(NWUPPG) version 4.01	
Copyright(c) FURUNO ELECTRIC CO.,LTD. 2002-2005	(T.K & T.Y)
>>my_IPaddress=172.31.19.100	
P0>connection IPaddrss=172.31.19.236	100 %
C: XXXXXERERRYXXX	