INFORMATION

IC-7760 Version 1.10

The following features are now changed in, or added to, the IC-7760.

Added : New functions and/or menus have been added.
Changed : Some operations, items, and/or options that already exist have been changed.

Changed Controller and RF deck connection 1
Added Connection through a wireless LAN 8
Changed Connecting the controller and RF deck through a network 9
Changed Set mode 10
Added Compatibility with SDXC cards 12
Changed Partial reset 13
Changed All reset 13
Added All reset for the RF deck 13
Changed CI-V commands 14

Changed Controller and RF deck connection

- The function to connect the controller and RF deck through a wireless LAN or the Internet is added.
  ⓘ A network environment with the following stable network speed is required.
  - Controller ➔ RF deck: 5 Mbps or faster
  - RF deck ➔ Controller: 10 Mbps or faster

IMPORTANT! To remotely control the IC-7760, **BE SURE** you comply with any local regulations.

NOTE: The controller and RF deck do not have wireless LAN capabilities. To connect to a wireless LAN, you need a wireless LAN converter or a wireless LAN Access Point (User supplied) for the LAN port. (p. 8)
ⓘ A wireless LAN adapter for a USB port cannot be used.

- Up to 5 controllers (supplied or optional RC-7760) can be paired to one RF deck.
  ⓘ Even when an RF deck is paired with 2 or more controllers, you can use only one controller at a time to operate the RF deck.
  ⓘ **DO NOT** connect 2 or more controllers to the RF deck's [CONTROLLER].
  ⓘ If the controller is paired with an RF deck other than the last RF deck it was connected to, the pairing information with the previous RF deck is deleted.

NOTE: The controller and RF deck have different hardware versions, depending on the country of sale. If the controller and RF deck's hardware version do not match, they cannot be connected.

Changed Controller and RF deck connection

◇About the Connection route and IP connection between the controller and RF deck

The IC-7760's controller and RF deck connect using the IP method. The IC-7760 has 3 IP addresses described to the right, and when you connect the controller and RF deck through a network, all of 3 IP addresses are used.

Controller	IP Address (LAN)
	IP Address (Controller)
RF deck	IP Address (RF Deck)

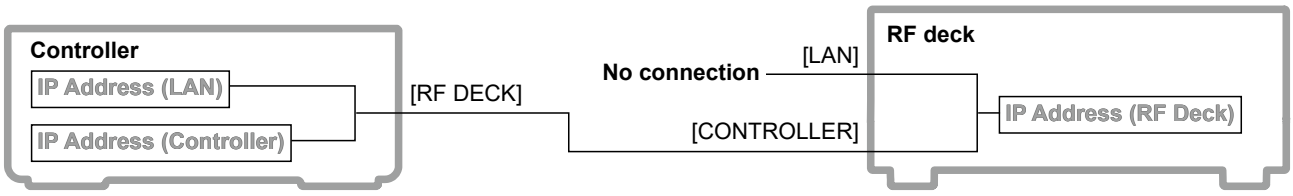
ⓘ When you connect the controller and RF deck directly with the supplied control cable, the 3 IP addresses are not used for the connection.
ⓘ When using the NTP function, or remotely controlling by a PC using the RS-BA1 software, "IP Address (LAN)" is used to connect to a network.

There are 11 connection methods.
ⓘ ☐ is a setting in the Set mode. Not used addresses are grayed in the images.
MENU » SET > **Network**

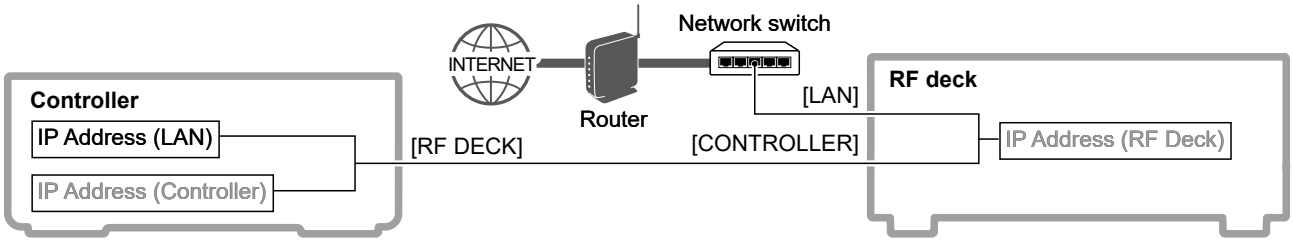
NOTE:
- **DO NOT** connect 2 or more controllers, or other devices to the RF deck's [CONTROLLER].
- When connecting in a wired LAN, we recommend that you use a networking device or ethernet cable that is compatible only with Gigabit Ethernet or faster, between the controller and RF deck.
  Using a device that is compatible only with Fast Ethernet or earlier may cause abnormal noise, and operation cannot be guaranteed.
- When connecting through the Internet, a network environment with the following stable network speed is required.
  - Controller ➔ RF deck: 5 Mbps or faster
  - RF deck ➔ Controller: 10 Mbps or faster
  Depending on your Internet environment, the audio may be intermittent due to packet loss.

Connecting directly with the supplied control cable

Connecting the controller and RF deck directly:
The controller and RF deck are directly connected with the supplied control cable.
ⓘ You have to connect that way before using the transceiver or an additional controller for the first time, or after performing an All reset.
The controller and RF deck are automatically paired after the RF deck is turned ON, and then the controller is turned ON.
ⓘ The IP addresses are not used for the connection.



Connecting the controller and RF deck directly, and connecting the RF deck to a network:
The controller and RF deck are directly connected with the supplied control cable, and the RF deck's [LAN] port is connected to a network switch.
ⓘ "IP Address (LAN)" is used to connect to a network. Other IP addresses are not used to connect the controller and RF deck.



Changed Controller and RF deck connection

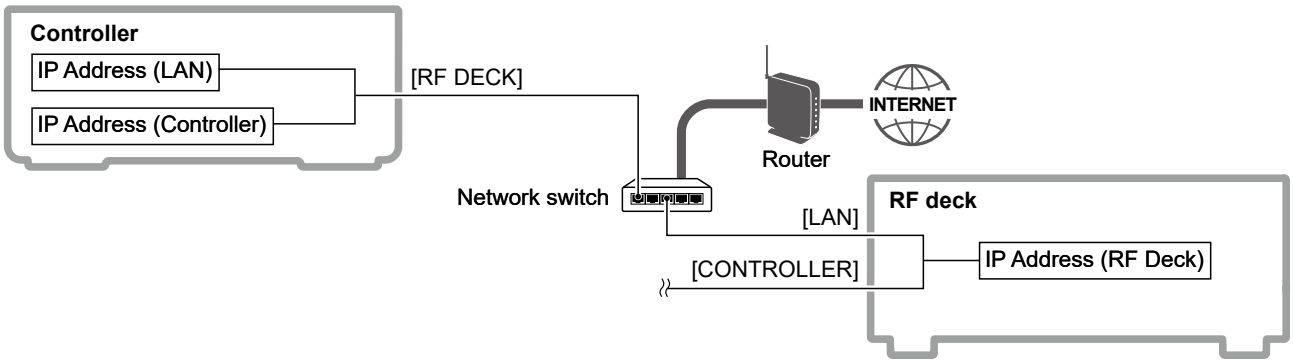
◇ About the Connection route and IP connection between the controller and RF deck

Connecting through LAN

LAN (in Same Segment):

The controller and RF deck are in the same segment.

ⓘ All 3 IP addresses are used for the connection.



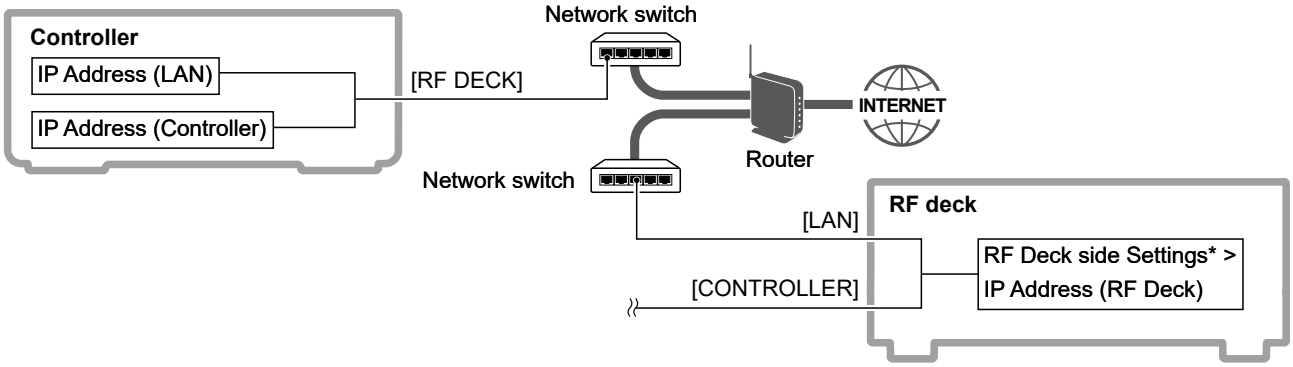
LAN (from Different Segment):

The controller and RF deck are connected between different segments.

ⓘ The RF deck cannot obtain a dynamic IP address from the DHCP server. Ask the network administrator for the network settings.

ⓘ The controller and RF deck cannot be connected if NAT/IP masquerading or a packet filter is used on a router.

* Set the RF deck's static IP address that is displayed after "Connection Route" is changed.
MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**



Changed Controller and RF deck connection

◇ About the Connection route and IP connection between the controller and RF deck

Connecting through LAN with a router

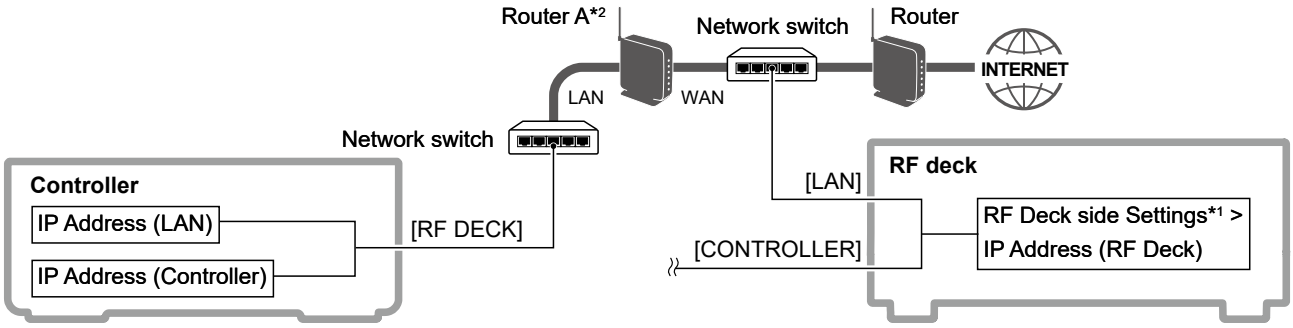
*1 Set the RF deck's static IP address that is displayed after "Connection Route" is changed.
MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**

*2 You need forwarding ports.
You can confirm the information for port forwarding on the PORT FORWARDING SETTINGS screen.
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Port Information (RF Deck side)**

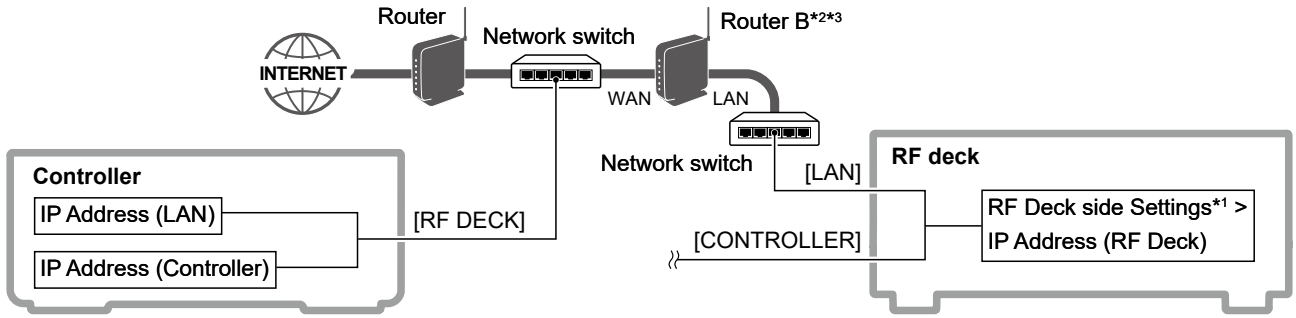
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Port Information (Controller side)**

*3 When "Connection Route" is set to "LAN (by on RF Deck Port FWD)," set "Connection Destination (RF Deck WAN Address)" to the router B's WAN IP address or Domain name.
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Connection Destination (RF Deck WAN Address)**

LAN (by on Controller Port FWD):
The controller and RF deck are connected between different segments.
The controller is on the LAN side of the router A with forward ports, and the RF deck is on the WAN side.
ⓘ Only one controller can be connected to the RF deck from one different segment (LAN side of the router A).



LAN (by on RF Deck Port FWD):
The controller and RF deck are connected between different segments.
The controller is on the WAN side of the router B with forward ports, and the RF deck is on the LAN side.



Changed Controller and RF deck connection

◇ About the Connection route and IP connection between the controller and RF deck

Connecting through the Internet

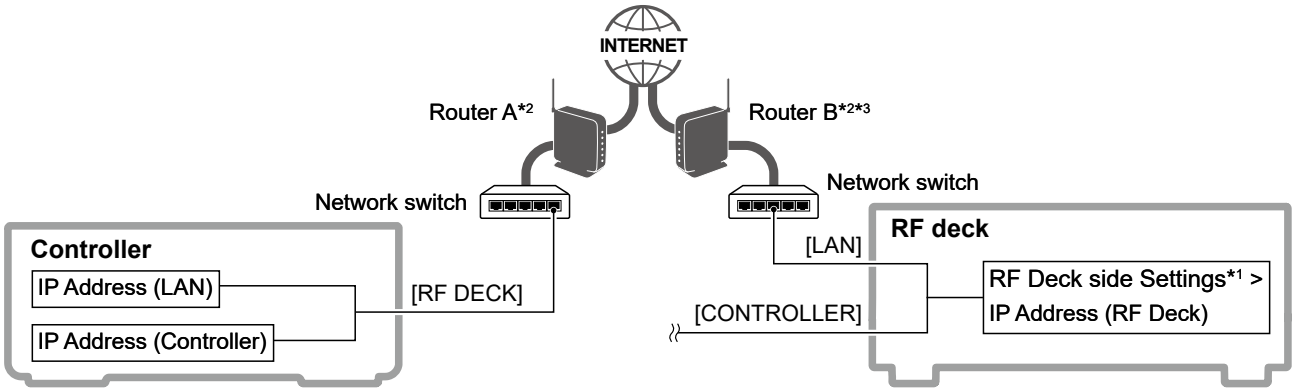
*1 Set the RF deck's static IP address that is displayed after "Connection Route" is changed.
MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**

*2 You need a global IP address and forwarding ports.
You can confirm the information for port forwarding on the PORT FORWARDING SETTINGS screen.
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Port Information (RF Deck side)**
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Port Information (Controller side)**

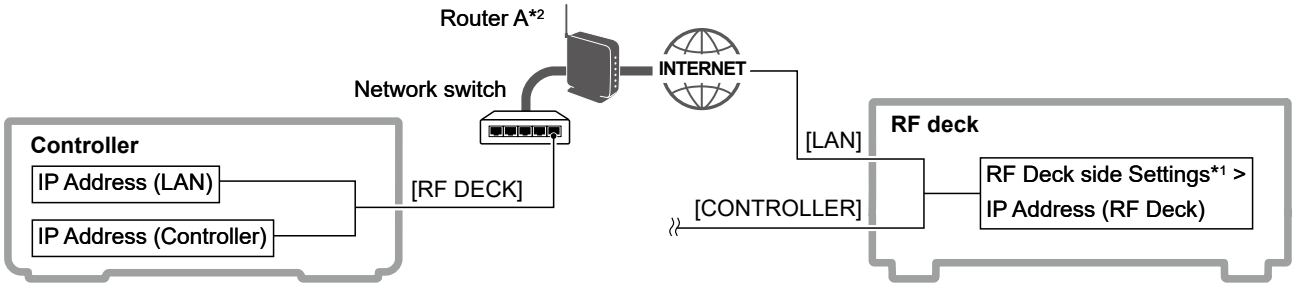
*3 When "Connection Route" is set to "Internet (by on Both sides Port FWD)," set "Connection Destination (RF Deck WAN Address)" to the router B's WAN IP address or domain name.
MENU » SET > Network > Controller Connection (via LAN) > Port Forwarding Settings > **Connection Destination (RF Deck WAN Address)**

Internet (by on Both sides Port FWD):
The controller and RF deck are connected through the Internet, and routers are on both the controller and RF deck sides.
ⓘ Only one controller can be connected to the RF deck from one different segment (LAN side of the router A).

NOTE: The controller can connect to the RF deck using a static global IP address or domain name on the RF deck side. If you have a dynamic global IP address, use a Dynamic DNS service to enable the controller to connect to the RF deck.



Internet (by on Controller Port FWD):
The controller and RF deck are connected through the Internet, the RF deck has a global static IP address.
ⓘ Only one controller can be connected to the RF deck from one different segment (LAN side of the router A).

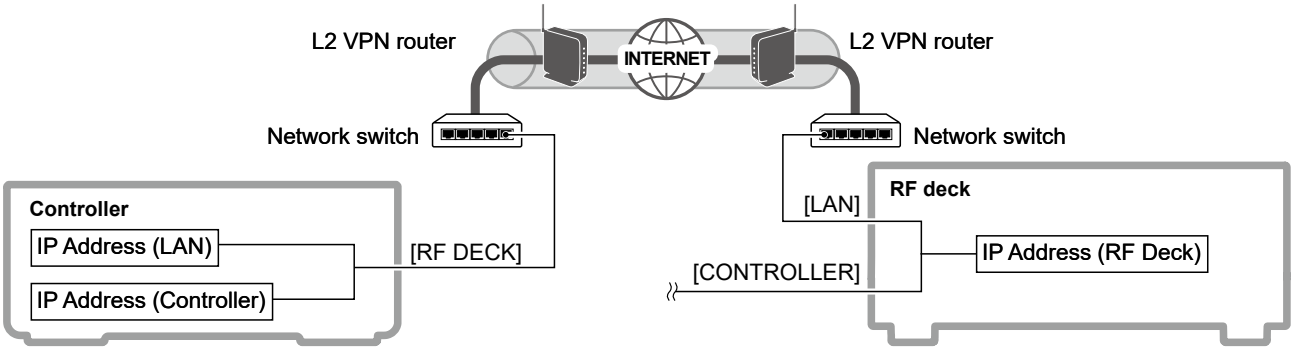


Changed Controller and RF deck connection

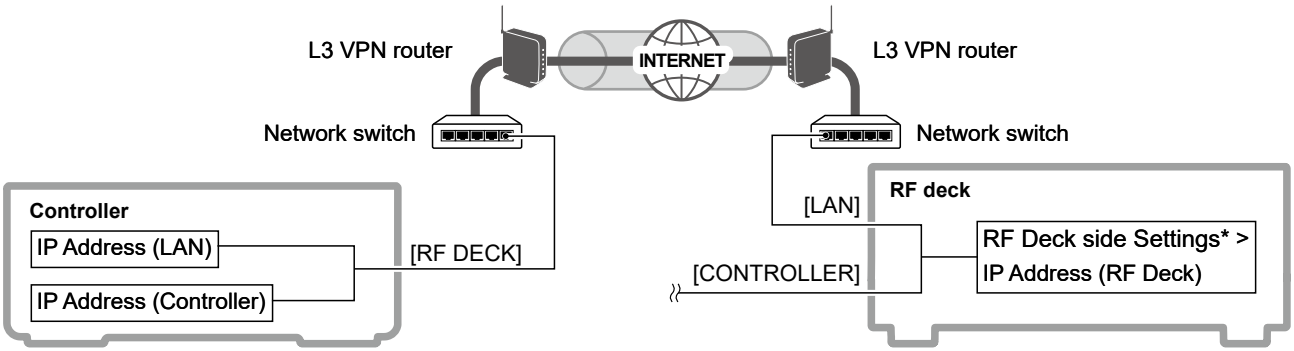
◇ About the Connection route and IP connection between the controller and RF deck

Connecting through the Internet VPN

Internet (L2 VPN in Same Segment):
The controller and RF deck are connected through the Internet by using a Layer 2 VPN (such as L2TP).



Internet (L3 VPN from Diff Segment):
The controller and RF deck are connected through the Internet by using a Layer 3 VPN (such as PPTP).
* Set the RF deck's static IP address that is displayed after "Connection Route" is changed.
MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**

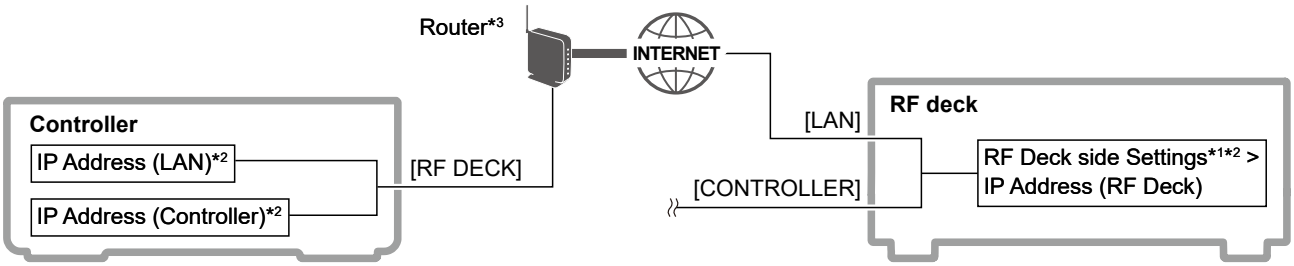


Connecting through the Internet with global static IP addresses

Internet (with Static IP Address):
The controller and RF deck are connected through the Internet, and they have global static IP addresses.

*1 Set the RF deck's static IP address that is displayed after "Connection Route" is changed.
MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**

*2 You need 2 different global static IP addresses for the controller and 1 global static IP address for the RF deck.
*3 A router that supports IP unnumbered is required on the controller side.



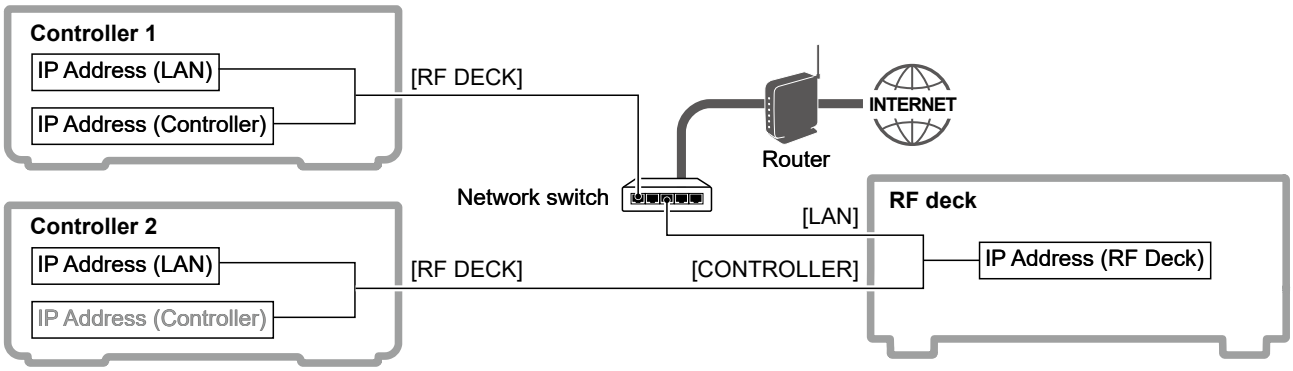
Changed Controller and RF deck connection

◇ About the Connection route and IP connection between the controller and RF deck

When using additional controllers

Example: When connecting one controller through a network and connecting the other directly

- When operating the controller connecting through a network (Controller 1), all 3 IP addresses are used for the connection.
- When operating the controller connecting directly (Controller 2), “IP Address (LAN)” is used to connect to a network.



NOTE for using additional controllers:

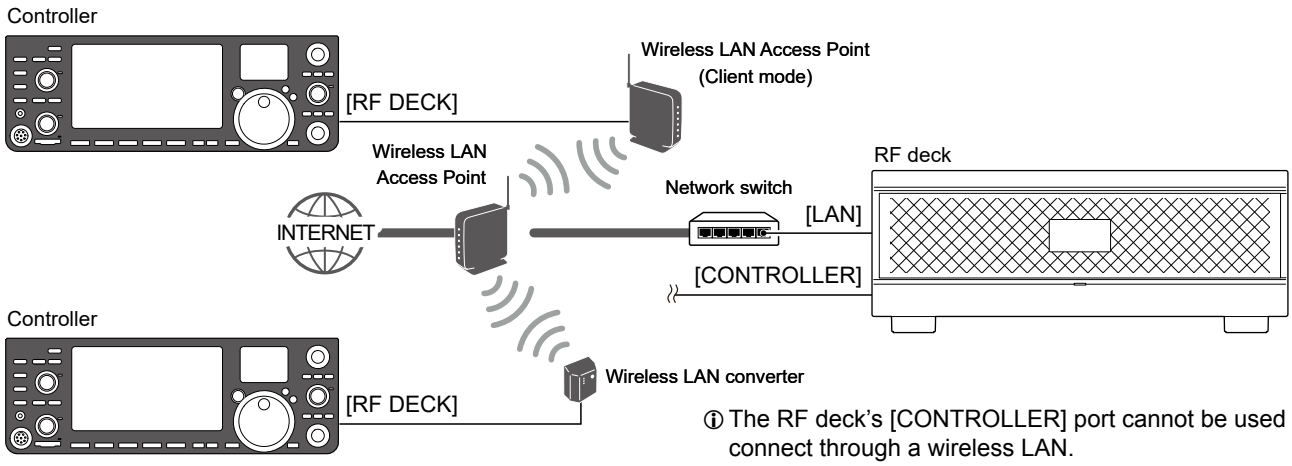
- **DO NOT** connect 2 or more controllers to the RF deck’s [CONTROLLER].
- **BE SURE** that the firmware version of all controllers and the RF deck are the same.
  ⓘ The RF deck’s firmware can be updated only when the controller and RF deck are connected. After one controller and the RF deck firmware are updated, you can update the other controller’s firmware without connecting it to the RF deck.
- Before using an additional controller for the first time, connect to the RF deck directly to pair them.
- When there are 2 or more controllers in the same segment and not using DHCP, **BE SURE** not to set duplicate IP addresses.
- Even when an RF deck is paired with 2 or more controllers, you can use only one controller at a time to operate the RF deck.
  A controller that is turned ON last has the priority of connecting to the RF deck. In this case, the controller first connected to the RF deck displays a dialog for 5 seconds, and then that controller will automatically be turned OFF.
- When you change the controller to operate, operating settings are not synchronized. The controller is turned ON with the last used settings.

Added Connection through a wireless LAN

You can connect the controller and RF deck through a wireless LAN using a wireless LAN converter or a wireless LAN Access Point (User supplied) for LAN port.
ⓘ A wireless LAN adapter for USB port cannot be used.

When there is a wireless network device between the controller and RF deck, set “The Route includes Wireless LAN” to ON.
MENU » SET > Network > Controller Connection (via LAN) > **The Route includes Wireless LAN**

Example: 2 controllers are connected through a wireless LAN

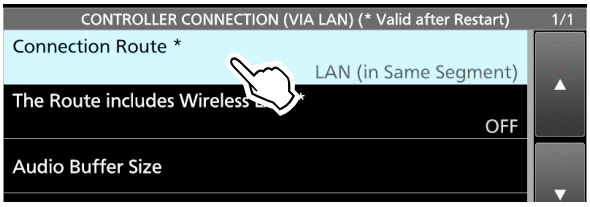


ⓘ The RF deck’s [CONTROLLER] port cannot be used to connect through a wireless LAN.

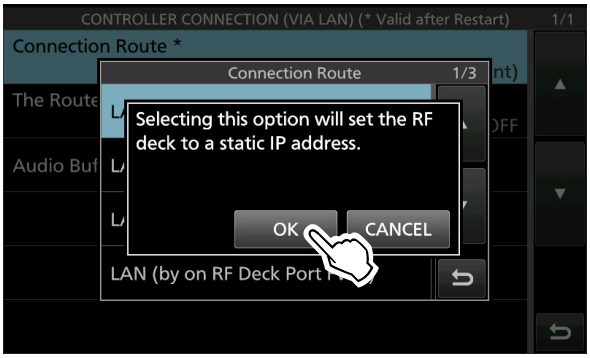
Changed Connecting the controller and RF deck through a network

NOTE:
- You need to connect the controller and RF deck directly to pair them before using the transceiver for the first time. If you do not, they cannot be connected. (“The RF deck is not detected.” is displayed and RF✕ blinks.)
- Confirm the controller and RF deck are connected (The indicator on the RF deck’s front panel lights blue.), and **DO NOT** disconnect them until the setting is completed.
- When you put the controller and RF deck in a remote location, first set up the RF deck at the location where you want it to be.

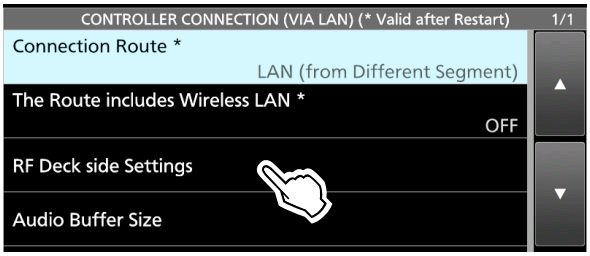
1. At the location where you put the RF deck, directly connect the controller and RF deck.
2. Turn ON the transceiver, and confirm the controller and RF deck are connected.
3. Open the CONTROLLER CONNECTION (VIA LAN) screen.
   MENU » SET > Network > **Controller Connection (via LAN)**
4. Touch “Connection Route.”



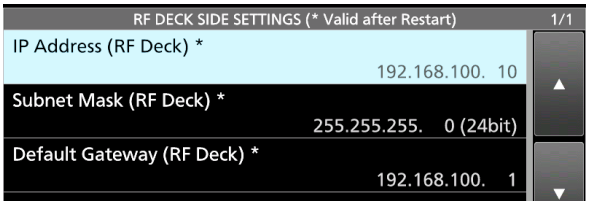
5. Select the connection route.
   (Example: LAN (from Different Segment))
   ⓘ When directly connecting the controller and the RF deck, this setting is disabled.
   ⓘ See page 2 about each connection route.
   ⓘ When setting “Connection Route” to “LAN (in Same Segment)” or “Internet (L2 VPN in Same Segment),” go to step 9.
6. When a dialog is displayed, touch [OK].



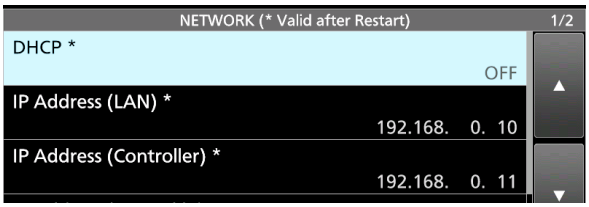
7. Touch “RF Deck side Settings.”



8. Set the RF deck’s static IP address.



   ⓘ When a DHCP server is on a network, **BE SURE** not to set the IP address in its address pool.
   ⓘ Set the subnet mask and default gateway of the network that the RF deck is connected to.
9. When a router is on the RF deck side, set “Connection Destination (RF Deck WAN Address)” to the router’s WAN IP address or Domain name.
10. When configuring a router to forward ports, confirm the information on the PORT INFORMATION (RF DECK SIDE) screen.
11. Turn OFF the transceiver, and connect the RF deck’s [LAN] port to the network device.
12. Move the controller to the location where you want it to be.
    ⓘ **DO NOT** push [I/O] and turn OFF the RF deck.
13. Turn ON the controller.
    ⓘ Ignore the displayed error dialog. It is displayed every time the controller is ON until the setting is completed.
14. When connecting them through a wireless LAN, set “The Route includes Wireless LAN” to ON.
15. When setting the static IP address to the controller, set “DHCP” to “OFF,” and set “IP Address (LAN)” and “IP Address (Controller).”



    ⓘ When a DHCP server is on a network, **BE SURE** not to set the IP address in its address pool.
    ⓘ Set the subnet mask, default gateway, and so on according to the network that the controller is connected to.
16. When configuring a router to forward ports, confirm the information on the PORT INFORMATION (CONTROLLER SIDE) screen.
17. Restart the controller.
18. Confirm the connection, and adjust the Audio Buffer size.

Changed Set mode

◇Network

- “Connection from Different Segment” and “Different Segment Settings” have been included in “Controller Connection (via LAN).”
- “The Route includes Wireless LAN” is added.
- “Audio Buffer Size (via LAN)” has been included in “Audio Buffer Size.”
- The Port Forwarding Settings are added.

* This setting is valid after restarting the transceiver.

MENU » SET > Network > **Controller Connection (via LAN)**

ⓘ These settings are valid after changing settings with the controller and RF deck connected, and restarting the transceiver.

Connection Route*

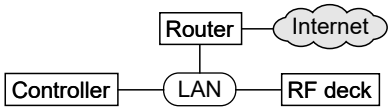
(Default: LAN (in Same Segment))

Selects the connection route between the controller and RF deck.

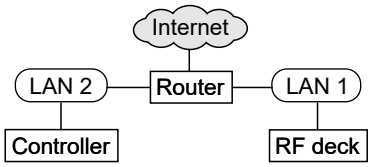
ⓘ When directly connecting the controller and the RF deck, this setting is disabled.

ⓘ See page 2 for details on each connection route.

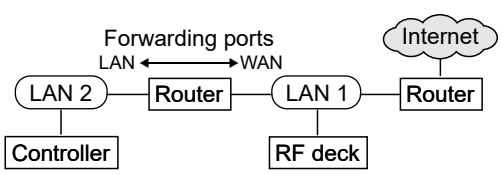
- LAN (in Same Segment):
  The controller and RF deck are in the same segment.



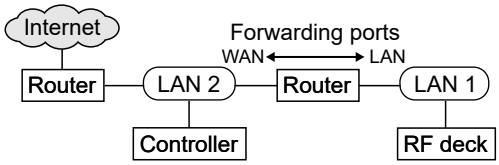
- LAN (from Different Segment):
  The controller and RF deck are connected between different segments .



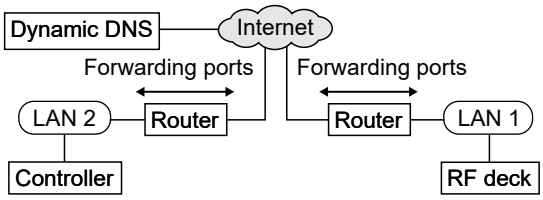
- LAN (by on Controller Port FWD):
  The controller and RF deck are connected between different segments. The controller is on the LAN side of the router with forward ports, and the RF deck is on the WAN side.



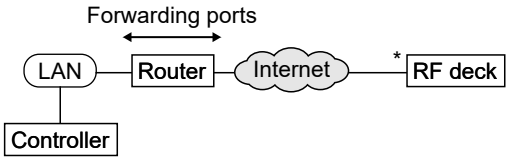
- LAN (by on RF Deck Port FWD):
  The controller and RF deck are connected between different segments. The controller is on the WAN side of the router with forward ports, and the RF deck is on the LAN side.



- Internet (by on Both sides Port FWD):
  The controller and RF deck are connected through the Internet, and routers are on both the controller and RF deck side.

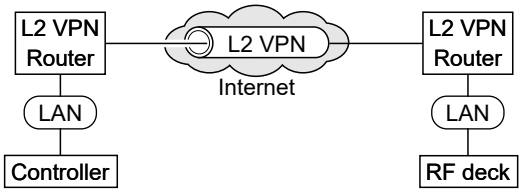


- Internet (by on Controller Port FWD):
  The controller and RF deck are connected through the Internet, and the RF deck has a global static IP address.

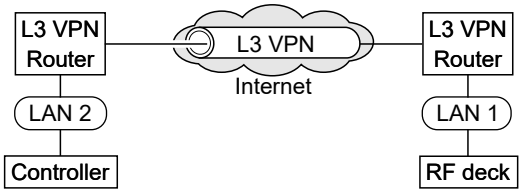


* Needs a global IP address.

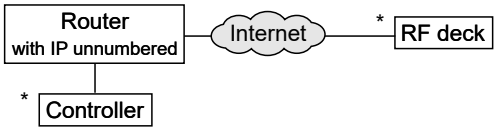
- Internet (L2 VPN in Same Segment):
  The controller and RF deck are connected through the Internet using the Layer 2 VPN (such as L2TP).



- Internet (L3 VPN from Diff Segment):
  The controller and RF deck are connected through the Internet using the Layer 3 VPN (such as PPTP).



- Internet (with Static IP Address):
  The controller and RF deck are connected through the Internet, and they have global static IP addresses.



* Need 2 different global IP addresses for the controller and 1 global IP address for the RF deck.

Changed Set mode

◇ Network

MENU » SET > Network > **Controller Connection (via LAN)**

The Route includes Wireless LAN* (Default: OFF)

Selects whether there is a wireless network device between the controller and RF deck.

MENU » SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**

ⓘ These settings are displayed when:
- "Connection Route" is set to other than "LAN (in Same Segment)" and "Internet (L2 VPN in Same Segment)."
- Another controller that is set to other than "LAN (in Same Segment)" and "Internet (L2 VPN in Same Segment)" is paired with the RF deck.

ⓘ When these settings are valid, "IP Address (RF Deck)*" in the Network menu is invalid even when "DHCP" is set to "OFF."

ⓘ These settings are valid after changing settings with connecting the controller and RF deck, and restarting the transceiver.

IP Address (RF Deck)* (Default: 192.168.100.10)

Sets the RF deck's static IP address.

ⓘ You cannot set the same address as "Default Gateway."

Subnet Mask (RF Deck)*
(Default: 255.255.255.0 (24 bit))

Sets the subnet mask of the network that the RF deck is connected to.

Default Gateway (RF Deck)*
(Default: 192.168.100.1)

Sets the Default Gateway of the RF deck.

<<Unset the Static IP Address>>

Select to unset the RF deck's static IP address.
After you unset the RF deck's static IP address, the IP address assigned by the DHCP server or set to "IP Address (RF Deck)*" in the Network menu is used.

ⓘ This item is displayed after changing "Connection Route" to "LAN (in Same Segment)" or "Internet (L2 VPN in Same Segment)."

NOTE: If you unset the RF deck's static IP address, other controllers on a different segment from the RF deck will no longer connect to it.

MENU » SET > Network > Controller Connection (via LAN) > **Port Forwarding Settings**

ⓘ These settings are displayed only when "Connection Route" is set to one of the following.
- Internet (by on Both sides Port FWD)
- LAN (by on Controller Port FWD)
- Internet (by on Controller Port FWD)
- LAN (by on RF Deck Port FWD)

Connection Destination (RF Deck WAN Address)*

ⓘ Displayed only when "Connection Route" is set to "Internet (by on Both sides Port FWD)" or "LAN (by on RF Deck Port FWD)."

Sets the RF deck side domain name or global IP Address.

Port Information (RF Deck side)

ⓘ Displayed only when "Connection Route" is set to "Internet (by on Both sides Port FWD)" or "LAN (by on RF Deck Port FWD)."

Displays the information for the router's port forwarding settings (Destination IP address/MAC address, port numbers, and protocol) on the RF deck side.

ⓘ You cannot change the port numbers.

Destination IP address	IP Address (RF Deck)
Port number and protocol	50101 UDP/TCP
	50102 TCP
	50103 UDP
	50104 UDP
	50105 UDP

Port Information (Controller side)

ⓘ Displayed only when "Connection Route" is set to "Internet (by on Both sides Port FWD)," "LAN (by on Controller Port FWD)," or "Internet (by on Controller Port FWD)."

Displays the information for the router's port forwarding settings (Destination IP address/MAC address, port numbers, and protocol) on the controller side.

ⓘ You cannot change the port numbers.

Destination IP address	IP Address (LAN)	IP Address (Controller)
Port number and protocol	50101 UDP/TCP	50103 UDP
	50102 TCP	50104 UDP
	50105 UDP	

Changed Set mode

◇ Network

MENU » SET > Network > Controller Connection (via LAN) > **Audio Buffer Size**

Wired LAN (in Same Segment)* (Default: 1.5ms)
Wired LAN (from Different Segment)* (Default: 2.5ms)
Wired LAN (via Internet)* (Default: 30ms)
Includes Wireless LAN* (Default: 150ms)

ⓘ When “The Route includes Wireless LAN” is set to “ON,” only “Includes Wireless LAN” is valid regardless of the “Connection Route” setting.
ⓘ When “Connection Route” is set to “LAN (in Same Segment),” only “Wired LAN (in Same Segment)” is valid.
ⓘ When “Connection Route” is set to “LAN (from Different Segment),” “LAN (by on Controller Port FWD),” or “LAN (by on RF Deck Port FWD),” only “Wired LAN (from Different Segment)” is valid.
ⓘ When “Connection Route” is set to “Internet (by on Both sides Port FWD),” “Internet (by on Controller Port FWD),” “Internet (L2 VPN in Same Segment),” “Internet (L3 VPN from Diff Segment),” or “Internet (with Static IP Address),” only “Wired LAN (via Internet)” is valid.

Selects the audio buffer size to reduce audio interruptions.

TIP: If the received audio is intermittent, select a longer value.

Round Trip Time

Displays the packet round trip time.
ⓘ The packet round trip time is not displayed when:
- The controller is not connected to the RF deck.
- The controller and RF deck are directly connected with the supplied control cable.

◇SD card/USB Flash Drive

The “Save Form” item is added.

MENU » SET > **SD Card**
MENU » SET > **USB Flash Drive**

Save Form (Default: Now Ver)

Selects the format to save the settings to an SD card or a USB flash drive.
- Now Ver: Saves the settings in the current version format.
- Old Ver (x.xx - x.xx): Saves the settings in an older version format indicated in the parenthesis (x.xx = version).

ⓘ If you select “Old Ver (x.xx - x.xx),” a function that is added when the transceiver’s firmware format is updated will not be saved.
ⓘ You cannot load a setting file that is saved in the current version format to an earlier firmware version.

Added Compatibility with SDXC cards

An SDXC card up to 256GB can now be used in this transceiver. Icom has checked the compatibility with the following cards. (As of February 2025)

Brand	Type	Capacity
SanDisk®	SD	2 GB
	SDHC	4/8/16/32 GB
	SDXC	64/128/256 GB

ⓘ Before using the card, format it using the transceiver.
ⓘ The performance of the cards listed above is not guaranteed.
ⓘ See the Basic manual Section 6 for details on how to insert or remove a card and precautions.

Changed Partial reset

The Antenna memory contents are not cleared, even if you perform a Partial reset.

Items that are not cleared after performing a Partial reset:

- Pairing information of the controller and RF deck
- Memory channel/Keyer memory/RTTY memory/ PSK memory/Preset memory/Antenna memory contents
- Internal antenna tuner preset points
- DPD adjustment value (only for user adjustment values)
- Network settings
- REF Adjust
- MY Call
- User Band Edges
- Fixed Edges

Changed All reset

The pairing information and RF deck's static IP address settings are not cleared, even if you perform an All reset on the controller.

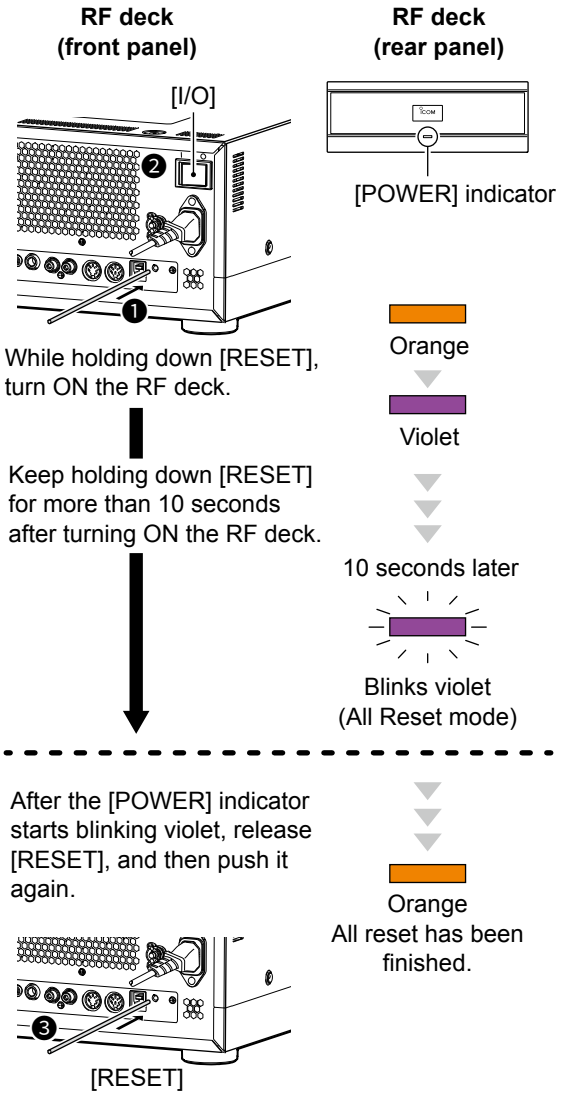
NOTE: If the controller and RF deck connection fails even when directly connecting then with the supplied control cable, perform an All reset with directly connecting them.

Added All reset for the RF deck

An All reset for the RF deck resets the items listed below, that are saved onto the RF deck.

- REF Adjust
- DPD adjustment value (only for user adjustment values)
- Internal antenna tuner preset points
- Pairing information
- RF deck's static IP address settings (IP address, Subnet mask, and Default gateway)

To perform an All reset for the RF deck, do the following steps.



NOTE: If you release [RESET] before the [POWER] indicator starts blinking violet, the All reset is canceled and the RF deck is turned ON in normal mode.
In that case, perform an All reset again.

Changed CI-V commands

The following commands are changed in, or added to the conventional Command table.

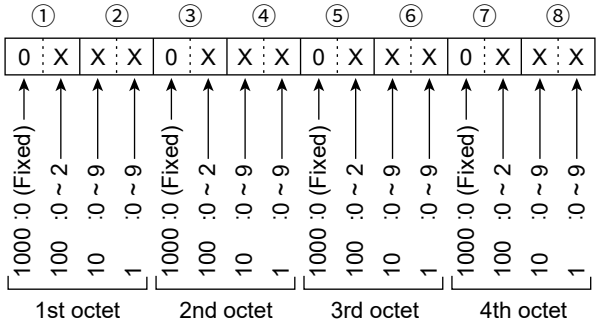
Cmd.	Sub cmd.		Data	Description
1A*	05	SET > **Network**		
		01 65	See p. 15.	Send/read the IP Address (RF Deck) (valid after restart) setting ⓘ Valid when the DHCP (valid after restart) is set to OFF. ⓘ You cannot set the same address as “IP Address (LAN),” “IP Address (Controller),” and “Default Gateway.” ⓘ When “RF deck’s static IP address” (1A 05 01 71) is set to command “01,” set the address to 1A 05 01 72.
		01 67	See p. 15.	Send/read the Default Gateway (valid after restart) setting ⓘ Valid when the DHCP (valid after restart) is set to OFF. ⓘ You cannot set the same address as “IP Address (LAN).” ⓘ When “RF deck’s static IP address” (1A 05 01 71) is set to command “01,” set the address to 1A 05 01 74.
		SET > Network > Controller Connection (via LAN) > **Audio Buffer Size**		
		01 70	00 ~ 05	Send/read the Wired LAN (in Same Segment) (valid after restart) setting (00=1 ms, 01=1.5 ms, 02=2 ms, 03=4 ms, 04=6 ms, 05=8 ms) ⓘ Valid when “Connection Route” (1A 05 03 69) is set to command “00.”
		SET > Network > Controller Connection (via LAN) > **RF Deck side Settings**		
		01 71	00/01	Send/read the RF deck’s static IP address setting (00=OFF, 01=ON) ⓘ When this item cannot be set to “OFF,” “FA” is returned.
		01 72	See p. 15.	Send/read the IP Address (RF Deck) (valid after restart) setting ⓘ Valid when “RF deck’s static IP address” (1A 05 01 71) is set to command “01.”
		01 73	01 ~ 30	Send/read the Subnet Mask (RF Deck) (valid after restart) setting (01=128.0.0.0 (1 bit) ~ 30=255.255.255.252 (30 bit)) ⓘ Valid when “RF deck’s static IP address” (1A 05 01 71) is set to command “01.”
		01 74	See p. 15.	Send/read the Default Gateway (RF Deck) (valid after restart) setting ⓘ Valid when “RF deck’s static IP address” (1A 05 01 71) is set to command “01.” ⓘ You cannot set the same address as “IP Address (RF Deck).”
		SET > Network > Controller Connection (via LAN) > **Audio Buffer Size**		
		01 75	00 ~ 04	Send/read the Wired LAN (from Different Segment) (valid after restart) setting (00=1.5 ms, 01=2.5 ms, 02=4 ms, 03=6 ms, 04=8 ms) ⓘ Valid when “Connection Route” (1A 05 03 69) is set to command between “01” and “03.”
		SET > Network > **Controller Connection (via LAN)**		
		03 69	00 ~ 08	Send/read the Connection Route (valid after restart) setting (00=LAN (in Same Segment), 01=LAN (from Different Segment), 02=LAN (by on Controller Port FWD), 03=LAN (by on RF Deck Port FWD), 04=Internet (by on Both sides Port FWD), 05=Internet (by on Controller Port FWD), 06=Internet (L2 VPN in Same Segment), 07=Internet (L3 VPN from Diff Segment), 08=Internet (with Static IP Address))
		03 70	00/01	Send/read The Route includes Wireless LAN setting (00=OFF, 01=ON)
		SET > Network > Controller Connection (via LAN) > **Port Forwarding Settings**		
		03 71	See p. 15	Send/read the Connection Destination (RF Deck WAN Address) (valid after restart) setting
		SET > Network > Controller Connection (via LAN) > **Audio Buffer Size**		
		03 72	0 ~ 12	Send/read the Wired LAN (via Internet) (valid after restart) setting (00=10 ms, 01=20 ms, 02=30 ms, 03=40 ms, 04=60 ms, 05=80 ms, 06=100 ms, 07=120 ms, 08=150 ms, 09=200 ms, 10=250ms, 11=300 ms, 12=400 ms) ⓘ Valid when “Connection Route” (1A 05 03 69) is set to command between “04” and “08.”
		03 73	0 ~ 12	Send/read the Includes Wireless LAN (valid after restart) setting (00=10 ms, 01=20 ms, 02=30 ms, 03=40 ms, 04=60 ms, 05=80 ms, 06=100 ms, 07=120 ms, 08=150 ms, 09=200 ms, 10=250ms, 11=300 ms, 12=400 ms) ⓘ Valid when “The Route includes Wireless LAN” (1A 05 03 70) is set to command “01.”

*(Asterisk) Send/read data

Changed CI-V commands

• **IP address setting**

Command: 1A 05 01 65, 01 67, 01 72, 01 74



ⓘSet each octet to 00 00 ~ 02 55.
ⓘFF = blank in command 1A 05 01 67 and 01 74.

• **Codes for character entries**

Command: 1A 05 03 71

- Character codes— Letters and Numbers

Character	ASCII code	Character	ASCII code
A ~ Z	41 ~ 5A	a ~ z	61 ~ 7A
0 ~ 9	30 ~ 39		

- Character codes— Symbols

Character	ASCII code	Character	ASCII code
!	21	#	23
$	24	%	25
&	26	\	5C
?	3F	”	22
’	27	`	60
^	5E	+	2B
−	2D	*	2A
/	2F	.	2E
,	2C	:	3A
;	3B	=	3D
<	3C	>	3E
(	28	)	29
[	5B	]	5D
{	7B	}	7D
|	7C	_	5F
~	7E	@	40

Cmd.	Sub cmd.			Set item/selectable characters
1A	05	03	71	Network > Controller Connection (via LAN) > Port Forwarding Settings > Connection Destination (RF Deck WAN Address) (up to 64 characters) A to Z, a to z, 0 to 9, - .