

IC-F8101

CI-V information— Ver. 4.08 or later

This information is described using Version 4.08 or later firmware. Earlier versions are some different.

CI-V connection

The transceiver can be connected to a PC with a USB cable. The Icom Communications Interface-V (CI-V) controls the transceiver.

- A USB cable (A-B type, user supplied)

The required USB driver and driver install guide can be downloaded from the Icom web site.

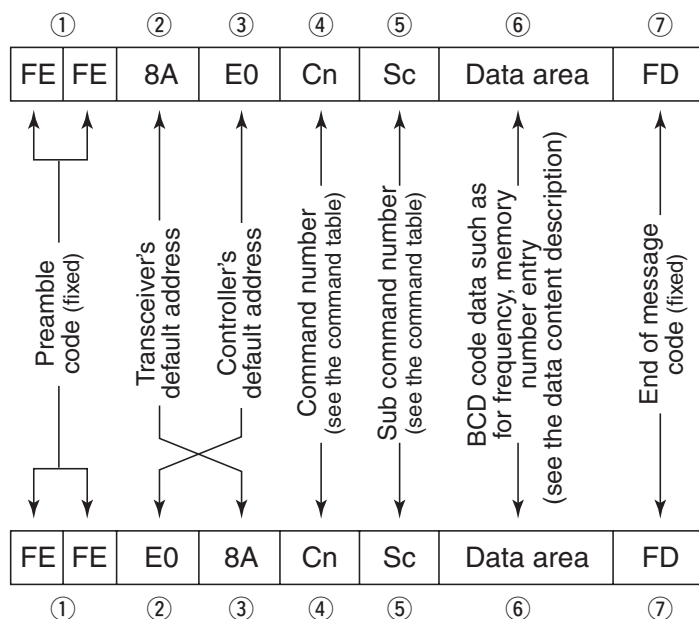
GO to “<http://www.icom.co.jp/world>,” then click “Support,” “Firmware Updates / Software downloads” in sequence.

* The download procedure on the web page may change without notice.

Data format

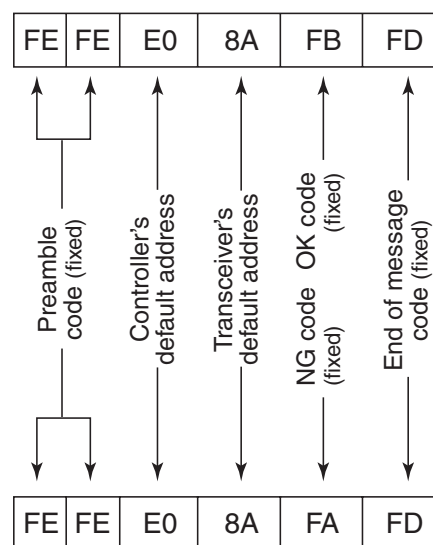
The CI-V system can be operated using the following data formats. Data formats differ, depending on command numbers. A data area or sub command is added for some commands.

Controller to IC-F8101



IC-F8101 to controller

OK message to controller



NG message to controller

Command table

Cmd.	Sub cmd.	Set mode		Data	Description	Cmd.	Sub cmd.	Set mode		Data	Description																
		Category	Item					Category	Item																		
02				See p. 6	Read the upper and lower frequencies	1A	05	02	03	0000/0001	Send/read the Accept RFDS setting (0000=OFF, 0001=ON) • This is permanently set to ON for AUS version, or OFF for other versions.																
03				See p. 6	Read the operating frequency					04	0000/0001	Send/read the TX Open STUN Call setting (0000=OFF, 0001=ON)															
07					Select the VFO mode					05	0002 to 0060	06	0000 to 0003	Send/read the RX Timeout timer (0002 to 0060=2 to 60 seconds)													
				00	Select VFO A																						
				01	Select VFO B					06	0001 to 0026	07	Send/read the Auto Start Type setting (0000=OFF, 0001=Scan, 0002=Termination, 0003=Scan in Link)														
08					Select the Memory mode																						
0E				00	Scan stop					03	0000 to 0050	00	0000 to 0050	Send/read the Meter Squelch Level (0000 to 0050=0 to 50)													
				01	Scan start																						
14		01	See p. 6	Send/read the AF level (0000=min. to 0255=max.)						01	0000/0001	01	0000/0001	Send/read the Noise Blanker setting (0000=OFF, 0001=ON)													
15		01	00	00	Read the squelch status (squelch closed)									02	0000 to 0015	02	0000 to 0015	Send/read the Noise Blanker Level (0000 to 0015=0 to 15)									
				01	Read the squelch status (squelch open)																						
			02	0000 to 0255	Read the S-meter level (0000=0, 0051=1, 0102=2, 0153=3, 0204=4, 0255=5)					03	0000 to 0009	03	0000 to 0009	04	0000 to 0015	Send/read the Noise Blanker Depth (0000 to 0009=0 to 9)											
11	0000 to 0255	Read the Power meter level (0000=0, 0051=1, 0102=2, 0153=3, 0204=4, 0255=5)																									
16		40		00	Send/read Noise Reduction OFF					05	0000 to 0002	05	0000 to 0002	Send/read the Preamp or Attenuator setting (0000=(Preamp) ON, 0001=OFF, 0002=ATT ON)													
				01	Send/read Noise Reduction ON																						
1A	05	00	00	0000 to 0030	Send/read the LQA Decay setting (0000=Disable, 0001 to 0030=1 to 30 days)					06	0000 to 0003	06	0000 to 0003	Send/read the AGC setting (0000=OFF, 0001=FAST, 0002=SLOW, 0003=AUTO)													
				0000 to 0048	Send/read the BER Threshold level (0000 to 0048=0 to 48)									07	0000 to 0002	07	0000 to 0002	Send/read the RF Power setting (00=LOW, 01=MID, 02=HIGH)									
				0000 to 0003	Send/read the Golay Threshold level (0000 to 0003=1 to 3)																						
				0000 to 0004	Send/read the Error Threshold level (0000 to 0004=0 to 4)	08	0000/0001	0000/0001	Send/read the Fan setting (0000=AUTO, 0001=CONTINUOUS)																		
				0000/0001	Send/read the Silent setting (0000=OFF, 0001=ON)																						
				0000 to 0010	Send/read the Call Retry setting (0000=0 (OFF), 0001 to 0010=1 to 10)														09	0000/0001	0000/0001	Send/read the Speech Processor setting (0000=OFF, 0001=ON)					
				0001 to 0008	Send/read the LQA Average setting (0001 to 0008=1 to 8)																						
				0000/0001	Send/read the LQA Request setting (0000=OFF, 0001=ON)																						
				0000/0001	Send/read the AMD Position setting (0000=Calling frame, 0001=Acknowledgement frame)																						
				01	00																		0000 to 0050	Send/read the Beep Level (0000=OFF, 0001 to 50=1 to 50)	10	0000 to 0010	Send/read the Speech Processor Level (0000 to 0010=0 to 10)
																							0000 to 0050	Send/read the Ringtone Level (0000=OFF, 0001 to 0050=1 to 50)			
																							0000 to 0005	Send/read the CW Side Tone Level (0000=OFF, 0001 to 0050=1 to 50)			
				02	00																		0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	11	0000 to 0010	Send/read the Mic Gain (0000 to 0010=0 to 10)
																							0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.			
																							0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.			
				02	00																		0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	12	0000 to 0004	Send/read the TX Timeout setting (0000=OFF, 0001=1 min., 0002=3 min., 0003=5 min., 0004 =10 min.)
																							0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.			
0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																										
02	00	0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	13	0000 to 0004					Send/read the CW Break-in setting (0000=OFF, 0001=0.5, 0002=1, 0003=2, 0004=3 seconds)																	
		0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
		0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
02	00	0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	14	0000/0001	Send/read the Tuner setting (0000=OFF, 0001=ON)																					
		0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
		0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
02	00	0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	15	0000/0001	Send/read the PTT Tune setting (0000=OFF, 0001=ON)																					
		0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
		0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
02	00	0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	16	0000/0001	Send/read the VFO Mode availability (0000=OFF, 0001=ON)																					
		0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
		0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
02	00	0000/0001	Send/read the Accept Icom Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.	17	0000/0001	Send/read the VFO Split setting (0000=OFF, 0001=ON)																					
		0000/0001	Send/read the Accept Open Selcall setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								
		0000/0001	Send/read the Accept ALE setting (0000=OFF, 0001=ON) • This is permanently set to ON.																								

Command table (Continued)

Cmd.	Sub cmd.	Set mode		Data	Description	Cmd.	Sub cmd.	Set mode		Data	Description	
		Category	Item					Category	Item			
1A	05	03	18	0000/0001	Send/read the Built-in Test Display (0000=OFF, 0001=ON)	1A	05	10	02	0001 to 0050	Send/read the IF filter passband width for the AM mode (0001 to 0050=200 to 10000 Hz in 200 Hz steps)	
			19	0000/0001	Send/read the Opening Display (0000=OFF, 0001=ON)				03	0001 to 0003	Send/read the connector for the AM mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
		04	00	0001 to 0030	Send/read the Link Interval setting (0001 to 0030=10 to 300 second(s) in 10 second steps)			11	00	0000 to 0002	Send/read the RTTY mode capability (0000=Disable, 0001=RX, 0002=RX & TX)	
			00	01	0000 to 0006				Send/read the I Key setting (0000=Not assigned, 0001=Menu, 0002=Manager, 0003=Setmode, 0004=Address list, 0005=Call In list, 0006=Call Out list)	01	0000 to 0006	Send/read the RTTY mark frequency (0000=1200 Hz, 0001=1275 Hz, 0002=1487.5 Hz, 0003=1615 Hz, 0004=1700 Hz, 0005=2100 Hz, 0006=2125 Hz)
				02	0000 to 0006				Send/read the III Key setting (0000=Not assigned, 0001=Menu, 0002=Manager, 0003=Setmode, 0004=Address list, 0005=Call In list, 0006=Call Out list)	02	0000 to 0003	Send/read the RTTY shift frequency (0000=170 Hz, 0001=200 Hz, 0002=425 Hz, 0003=850 Hz)
		07	00	00	0000 to 0002			Send/read the LSB mode capability (0000=Disable, 0001=RX, 0002=RX & TX)	03	0000/0001	Send/read the keying polarity. (0000=NORMAL, 0001=REVERSE)	
				01	0000			Send/read the Offset frequency for the LSB mode (0000=1500 Hz)	12	00	0000 to 0002	Send/read the LSB1 mode capability (0000=Disable, 0001=RX, 0002=RX & TX)
				02	0001 to 0030			Send/read the IF filter passband width for the LSB mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)		01	0000 to 0002	Send/read the Offset frequency for the LSB1 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)
				03	0001 to 0003			Send/read the connector for the LSB mode data modulation when an external unit's PTT is pushed (01=USB, 02=ACC, 03=TC4)		02	0001 to 0030	Send/read the IF filter passband width for the LSB1 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)
		08	00	00	0000 to 0002			Send/read the USB mode capability (00=Disable, 01=RX, 02=RX & TX)	03	0001 to 0003	Send/read the connector for the LSB1 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
				01	0000			Send/read the Offset frequency for the USB mode (0000=1500 Hz)	13	00	0000 to 0002	Send/read the USB1 mode capability (0000=Disable, 0001=RX, 0002=RX & TX)
				02	0001 to 0030			Send/read the IF filter passband width for the USB mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)		01	0000 to 0002	Send/read the Offset frequency for the USB1 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)
				03	0001 to 0003			Send/read the connector for the USB mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)		02	0001 to 0030	Send/read the IF filter passband width for the USB1 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)
		09	00	00	0000 to 0002			Send/read the CW mode capability (0000=Disable, 0001=RX, 0002=RX & TX)		03	0001 to 0003	Send/read the connector for the USB1 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)
				01	0000			Send/read the Offset frequency for the CW mode (0000=800 Hz)	14	00	0000 to 0002	Send/read the LSB2 mode capability (0000=Disable, 0001=RX, 0002=RX & TX)
				02	0001 to 0030			Send/read the IF filter passband width for the CW mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)		01	0000 to 0002	Send/read the Offset frequency for the LSB2 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)
		10	00	00	0000 to 0002			Send/read the AM mode capability (0000=Disable, 0001=RX, 0002=RX & TX)	02	0001 to 0030	Send/read the IF filter passband width for the LSB2 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)	
				01	0000			Send/read the Offset frequency for the AM mode (0000=0 Hz)				

Command table (Continued)

Cmd.	Sub cmd.	Set mode		Data	Description	
		Category	Item			
1A	05	14	03	0001 to 0003	Send/read the connector for the LSB D2 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
			15	00	0000 to 0002	Send/read the USB D2 mode capability (0000=Disable, 0001=RX, 0002=RX & TX)
				01	0000 to 0002	Send/read the Offset frequency for the USB D2 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)
				02	0001 to 0030	Send/read the IF filter passband width for the USB D2 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)
			03	0001 to 0003	Send/read the connector for the USB D2 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
		16	00	0000 to 0002	Send/read the LSB D3 mode capability (0000=Disable, 0001=RX, 0002=RX & TX)	
			01	0000 to 0002	Send/read the Offset frequency for the LSB D3 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)	
			02	0001 to 0030	Send/read the IF filter passband width for the LSB D3 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)	
			03	0001 to 0003	Send/read the connector for the LSB D3 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
		17	00	0000 to 0002	Send/read the USB D3 mode capability (00=Disable, 01=RX, 02=RX & TX)	
			01	0000 to 0002	Send/read the Offset frequency for the USB D3 mode (0000=1500 Hz, 0001=1650 Hz, 0002=1800 Hz)	
			02	0001 to 0030	Send/read the IF filter passband width for the USB D3 mode (0001 to 0030=100 to 3000 Hz in 100 Hz steps)	
			03	0001 to 0003	Send/read the connector for the USB D3 mode data modulation when an external unit's PTT is pushed (0001=USB, 0002=ACC, 0003=TC4)	
		18	00	0000 to 0003	Send/read the Scan type (0000=CALL, 0001=S-Meter, 0002=Voice, 0003=All Memory)	
			01	0000 to 0024	Send/read the Voice Scan Resume setting (0000=OFF, 0001 to 0024=5 to 120 seconds in 5 second steps)	
			02	0000 to 0002	Send/read the scan speed setting for the All Memory Scan (0000=LOW, 0001=MID, 0002=HIGH)	

Cmd.	Sub cmd.	Set mode		Data	Description	
		Category	Item			
1A	05	19	00	0000 to 0010	Send/read the Contrast setting of the LCD (0000 to 0010=0 to 10)	
			01	0000 to 0010	Send/read the Backlight brightness of the LCD (0000=OFF, 0001 to 0010=1 to 10)	
			02	0000 to 0019	Send/read the Backlight timer of the LCD (0000=OFF, 0001 to 0018=5 to 90 seconds in 5 second steps, 0019=CONTINUOUS)	
			03	0000 to 0007	Send/read the Marquee times for the text scroll function (0000=OFF, 0001 to 0007=1 to 7 times)	
			04	0000/0001	Send/read the Home display setting (0000=Channel, 0001=VFO mode)	
			20	0000/0001	Send/read the Sellcall Silent mode setting (0000=OFF, 0001=ON)	
			21	00	0000/0001	Send/read the GPS data transfer speed (0000=4800 bps, 0001=9600 bps)
				01	0000/0001	Send/read the CI-V data transfer speed (0000=300 bps, 0001=1200 bps, 0002=4800 bps, 0003=9600 bps, 0004=19200 bps, 0005=38400 bps, 0006=AUTO)
				02		Read the CI-V address setting (01h to DFh)
					03	0000/0001
				07	0000/0255	Send/read the Fan status (0000=OFF, 0255=ON)
				08		Read the RSSI
				09	0000 to 0003	Send/read the Squelch Mode (0000=OFF, 0001=Call, 0002=S-Meter, 0003=Voice)
				0A	See p. 6	Send/read the AF setting (0000=min. to 0255=max.)
				0B	0000 to 0003	Read the Hardware Model Version (0000=EXP, 0001=AUS, 0002=UN, 0003=NoOP)
				0C		Send the Built-in test equipment • Connect the dummy load to the antenna connector, before sending this command.
				34	0000 to 0255	Read the TX/RX Mode setting (0000=LSB, 0001=USB, 0002=AM, 0003=CW, 0004=RTTY, 0018=LSB D1, 0019=USB D1, 0020=LSB D2, 0021=USB D2, 0022=LSB D3, 0023=USB D3, 0255=No Mode)
				35	See p. 6	Send the VFO Frequency
				36	0000 to 0255	Send the TX/RX Mode setting (0000=LSB, 0001=USB, 0002=AM, 0003=CW, 0004=RTTY, 0018=LSB D1, 0019=USB D1, 0020=LSB D2, 0021=USB D2, 0022=LSB D3, 0023=USB D3)

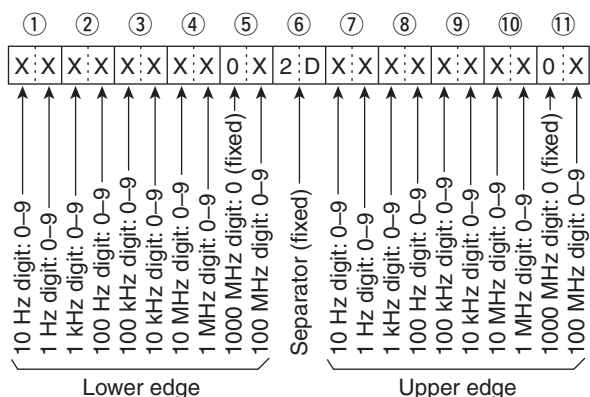
Command table (Continued)

Cmd.	Sub cmd.	Set mode		Data	Description	
		Category	Item			
1A		37		0000 to 0002	Send/read the TX status (0000=RX, 0001=TX by PTT, 0002=TX by ACC PTT) • If you want to change the TX status between the PTT and ACC PTT, first change to the RX status, then select the TX status.	
				38		Send/read the memory channel (ASCII 1 to 20 characters)
				40		Send the Hangup command While calling: Stop calling While linking the Selcall Phone Link or ALE link, sends the disconnect call.
				41	See p. 6	Send the ALE Call output setting
				42	See p. 7	Send the Selcall output setting
				50	0000/0001	Send/read the Priority Network setting
				53	See p. 9	Send to output the transceiver's channel list to a log.
				54	See p. 7	Send/read the Scan Type of the Network List.
				60	See p. 8	Read the GPS position
				A3	See p. 8	Read the Model information
1C		00		00/ 01	Send/read the PTT output setting (00=RX, 01=PTT TX)	
				01	00 to 02	Send the Antenna tuner operation (00=Through, 01=Tuner ON, 02=Manual tune) Read the Antenna Tuner status (00=Tuner ON, 01=Through)

Data content description

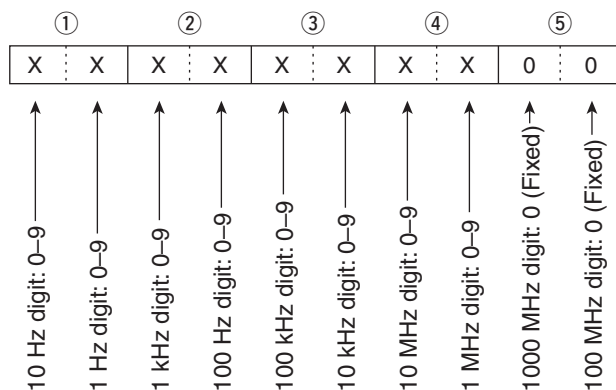
◆ Band edge frequency setting

Command: 02



◆ Operating frequency

Command: 03, 1A 35



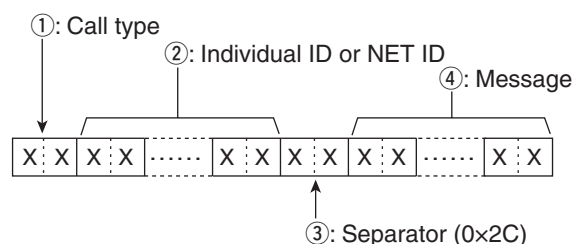
◆ Audio volume level

Command: 14 01

Data	VR level	Data	VR level	Data	VR level
00 00	0	01 89	17	02 23	34
01 39	1	01 91	18	02 25	35
01 43	2	01 93	19	02 27	36
01 47	3	01 95	20	02 29	37
01 51	4	01 97	21	02 31	38
01 55	5	01 99	22	02 33	39
01 59	6	02 01	23	02 35	40
01 63	7	02 03	24	02 37	41
01 67	8	02 05	25	02 39	42
01 71	9	02 07	26	02 41	43
01 75	10	02 09	27	02 43	44
01 77	11	02 11	28	02 45	45
01 79	12	02 13	29	02 47	46
01 81	13	02 15	30	02 49	47
01 83	14	02 17	31	02 51	48
01 85	15	02 19	32	02 53	49
01 87	16	02 21	33	02 55	50

◆ ALE setting

Command: 1A 41



① Call type data

Call type	① Data	Separator	Message
Individual	00	—	—
NET	01	✓	—
Individual AMD	02	✓	✓
NET AMD	03	✓	✓
Sounding	04	—	—
Individual Update LQA	05	—	—
NET Update LQA	06	✓	—
Unlink Individual AMD	07	✓	✓
Unlink NET AMD	08	✓	✓
Global All	09	—	—
Global All AMD	10	—	✓
Unlink Global All AMD	11	—	✓

② Individual ID or NET ID

1 to 15 characters

Basic 38 ASCII subset ('A' to 'Z', '0' to '9', '@', '?')

Character	ASCII code	Character	ASCII code
0-9	30-39	A-Z	41-5A
@	40	?	3F

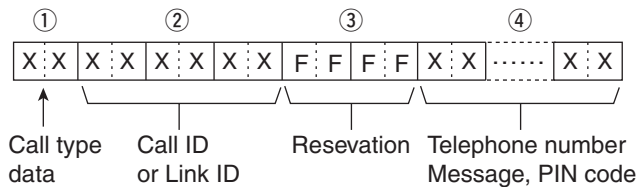
④ Message

1 to 90 characters

ASCII code (20 to 5Fh)

◆ Selcall setting

Command: 1A 42



① Call type data

Call type	① Data	Telephone number/Message/PIN code
Selective	00	—
Phone	01	Telephone number
Message	02	Message
Send Position	03	—
Get Position	04	—
Get Status	05	—
Emergency	21	—
Channel Test	24	—
Stun	28	PIN code

② Call ID, Link ID

If the ID is less than 6 digits, enter F into the rest digits.

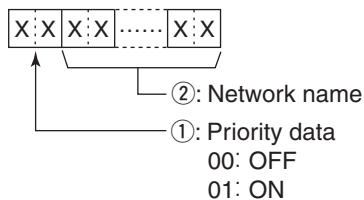
Example: Call ID is 123, enter 123FFF.

④ Telephone number, Message, PIN code

- Telephone number: 1 to 16 digit(s)
ASCII code (30 to 39h Number)
- Message: 1 to 64* characters
ASCII code (20 to 7Eh)
* Icom Selcall: Up to 64 characters
Open Selcall: Up to 32 characters
(After 33 characters are omitted.)
- PIN code*: 1 to 10 digit(s)
ASCII code (30 to 39h Number)
* Open Selcall only

◆ Priority Network setting

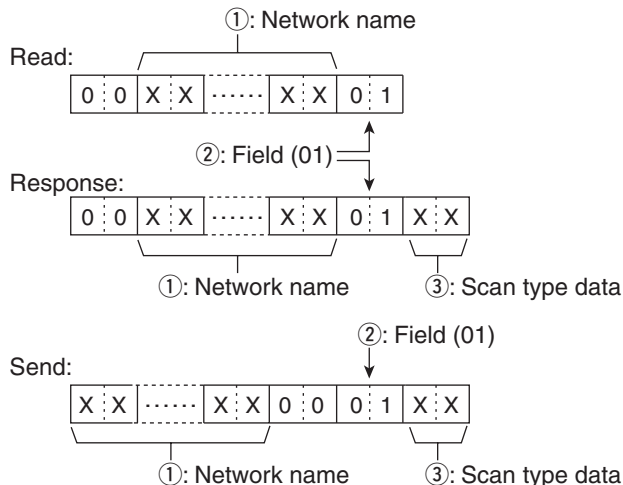
Command: 1A 50



② Network name
ASCII 1 to 20 characters

◆ Scan type data

Command: 1A 54



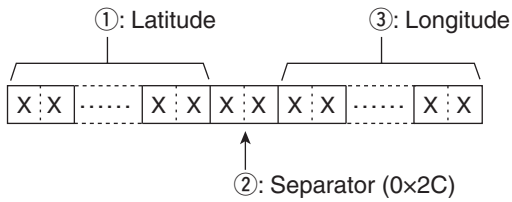
① Network name
ASCII 1 to 20 Bytes.

③ Scan type data

Call type	① Data
OFF	00
Call	01
Voice	02
Call, Voice	03
S-Meter	04
Call, S-Meter	05
Voice, S-Meter	06
Call, Voice, S-Meter	07

◆ **Position data**

Command: 1A 60

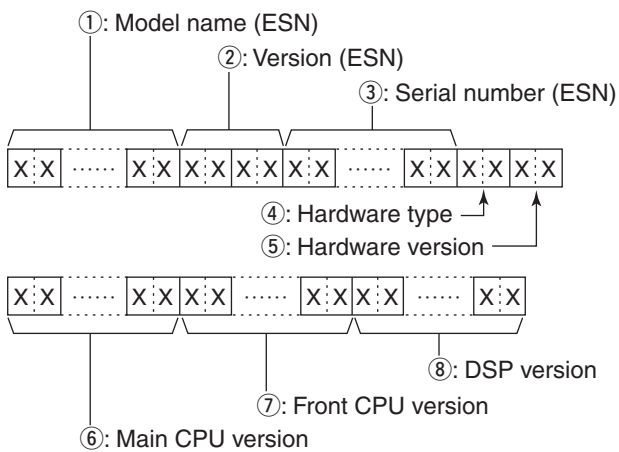


① Latitude
ASCII 11 Bytes.

③ Longitude
ASCII 12 Bytes.

◆ **Model information**

Command: 1A A3

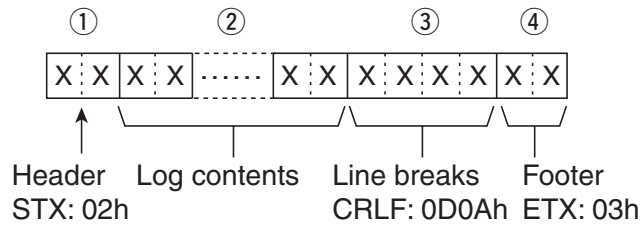


ESN: Electronic Serial Number

④ Hardware type

Hardware type	④ Data
EXP	0 (ASCII)
AUS	1 (ASCII)
UN	2 (ASCII)
NoOP	3 (ASCII)

◇ Log format



• Log list

Item	Type	Log contents + Line breaks (② + ③)	Description
ALE	QUALITY	NTF, ALE, QUALITY, 'Caller ID', 'Received BER', 'Received SINAD' 'CR' 'LF'	Outputs the signal quality of the received ALE Call without LQA report
		NTF, ALE, QUALITY, 'Caller ID', 'Received BER', 'Received SINAD', 'LQA Report BER', 'LQA Report SINAD' 'CR' 'LF'	Outputs the signal quality of the received ALE Call including LQA report
		Caller ID: Up to 15 characters Received BER, Received SINAD, LQA Report BER, LQA Report SINAD: 0~31 (31 = Not measured)	
RX		NTF, ALE, RX, 'Caller ID', 'Received BER', 'Received SINAD', 'Type', 'Called ID' 'CR' 'LF'	Outputs the received ALE Call without LQA report
		NTF, ALE, RX, 'Caller ID', 'Received BER', 'Received SINAD', 'Type', 'Called ID', 'LQA Report BER', 'LQA Report SINAD' 'CR' 'LF'	Outputs the received ALE Call including LQA report
		NTF, ALE, RX, 'Caller ID', 'Received BER', 'Received SINAD', 'Type', 'Called ID', 'Message' 'CR' 'LF'	Outputs the received ALE message without LQA report
		NTF, ALE, RX, 'Caller ID', 'Received BER', 'Received SINAD', 'Type', 'Called ID', 'LQA Report BER', 'LQA Report SINAD', 'Message' 'CR' 'LF'	Outputs the received ALE message including LQA report
		Caller ID: Up to 15 characters Received BER, Received SINAD, LQA Report BER, LQA Report SINAD: 0~31 (31 = Not measured) Type: CALL, TERMINATION, SOUNDING Message: ASCII 1 to 90 characters	
RX CALL		NTF, ALE, RXCALL, 'ID Type', 'Called ID', 'Caller ID' 'CR' 'LF'	Outputs the received ALE Call
		ID Type: IND = Individual, NET, ALL Called ID, Caller ID: Up to 15 characters	
RX MSG		NTF, ALE, RXMSG, 'ID Type', 'Called ID', 'Caller ID', 'Message' 'CR' 'LF'	Outputs the received ALE message
		ID Type: IND, NET, ALL Called ID, Caller ID: Up to 15 characters Message: ASCII 1 to 90 characters	
RX SOUNDING		NTF, ALE, RXSOUND, 'Caller ID' 'CR' 'LF'	Outputs the received ALE Sounding
		Caller ID: Up to 15 characters	
STATUS		NTF, ALE, STATUS, 'STATUS' 'CR' 'LF'	Outputs ALE status information
		NTF, ALE, STATUS, Linked, 'Linked ID' 'CR' 'LF'	Outputs ALE linked status information
			STATUS: Calling, Sounding, Linked, Hung Up Linked ID: Up to 15 characters

Data content description

◇ Log format (Continued)

Item	Type	Log contents + Line breaks (② + ③)	Description
CI-V	ERROR	NTF, CIV, ERR, 'Error Message' 'CR' 'LF'	Outputs the CI-V error message
M-CH	LIST	NTF, MCH, LIST, 'Channel Name' 'CR' 'LF'	Outputs the channel names that are preset
	SEL	NTF, MCH, SEL, 'Channel Name' 'CR' 'LF'	Outputs the channel name that is changed to
RFDF	STATUS	NTF, RFDF, STATUS, 'STATUS' 'CR' 'LF'	Outputs the RFDS status information
		STATUS: Calling, Sounding, Linked, Hung Up Linked ID: Up to 15 characters	
Selcall	RX CALL	NTF, SEL, RXCALL, 'Call Type', 'Called ID', 'Caller ID' 'CR' 'LF'	Outputs the received Selcall
		Call Type: SEL=Selective Called ID, Caller ID: Up to 6 characters	
	RX MSG	NTF, SEL, RXMSG, 'Call Type', 'Called ID', 'Caller ID', 'Message' 'CR' 'LF'	Outputs the received Selcall message
		Call Type: TEL = Telephone, POS = Send Position, MSG = Message, STT = Status, EMR = Emergency Called ID, Caller ID: Up to 6 characters Message: Up to 64 characters	
STATUS	NTF, SEL, STATUS, 'STATUS' 'CR' 'LF'	Outputs the Selcall status information	
	STATUS: Calling, Sounding, Linked, Hung Up		