

TYPE	Function	Control Command			Inquiry Command			Range and kind of parameter Call-back	Explanation
		Transmission Command [:Parameters]	Reception Command [:Parameters]	Standby	Transmission Command [:Parameters]	Reception Command [:Parameters]	Standby		
NETWORK SETTING	User name	SSU:UNM *...*	SSU	Avail(*1)	QSU:UNM	QSU:UNM *...*	Avail(*1)	[space] 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z _ a b c d e f g h i j k l m n o p q r s t u v w x y z - @	Telnet Username(Max 16 Parameters) RS232C command only [Default] dispadmin
	User password	SSU:UPW *...*	SSU	Avail(*1)	QSU:UPW	QSU:UPW *...*	Avail(*1)	[space] 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z _ a b c d e f g h i j k l m n o p q r s t u v w x y z - @	Telnet password(Max 16 Parameters) RS232C command only [Default] @Panasonic
Others	Software Version	-	-	-	QRV	QRV: *.*00 ***..	Avail(*1)	*Example 1.0000 CQ1	Verson model
	Software Version LAN MCU	-	-	-	QRV:LAN	QRV:LAN ** **	Avail(*1)	*Example 01.00	Version
	IModel	-	-	-	QID	QID: **. ***.. *	Avail(*1)	43 / 50 / 55 / 65 / 75 / 86 CQ1 U / W	Inch size model market
	Serial number	-	-	-	QSN	QSN:*****	Avail(*1)	9 to 15 figures of the ASCII characters	(Alphanumeric character)(capital letter of the alphabet)(Blank)'-'(0x30-0x39,0x41-0x5a,0x20,0x2d)

*1 Power save mode = off only

Protocol SERIAL

Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baudrate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	None

type of cable : straight cable

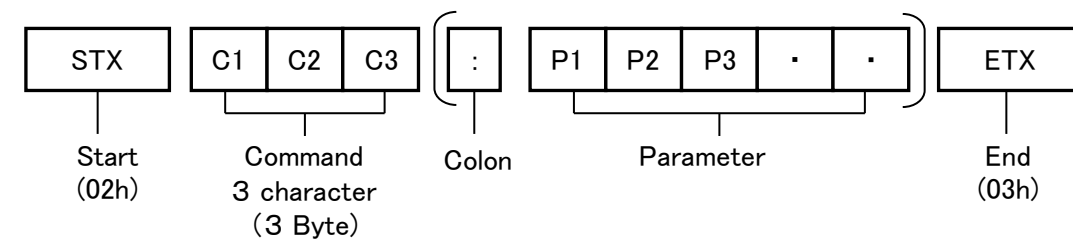
Signal names for SERIAL IN terminal:

Pin No.	Signal Name
②	RXD
③	TXD
④	DTR
⑤	GND
⑥	DSR
⑦	↑ (Shorted in this set)
⑧	
⑨	NC

These signal names are those of computer specifications.

Basic format for control data:

The transmission of control data starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, the colon ":" does not need to be sent.



(Example)

Power on

(Transmission)

Character	STX	P	O	N	ETX
Binary	02	50	4F	4E	03

Changing input "HDMI1"

(Transmission)

Character	STX	I	M	S	:	H	M	1	ETX
Binary	02	49	4D	42	3A	48	4D	31	03

Notes:

Inquiry input / "HDMI1"

(Transmission)

Character	STX	Q	M	I	ETX
Binary	02	51	4D	49	03

(Transmission)

Character	STX	Q	P	C	:	M	E	N	ETX
Binary	02	51	50	43	3A	4D	45	4E	03

- If an incorrect command is sent, this signal is sent.
- If customer send multiple commands, be sure to wait for the response for the first command to come before sending the next command within 100ms / MAX 1 s
- The length of the Parameters are different for each command.

(Reception)

Character	STX	P	O	N	ETX
Binary	02	50	4F	4E	03

(Reception)

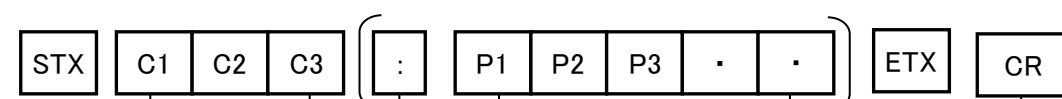
Character	STX	I	M	S	ETX
Binary	02	49	4D	42	03

(Reception)

Character	STX	Q	M	I	:	H	M	1	ETX
Binary	02	51	4D	49	3A	48	4D	31	03

Character	STX	Q	P	C	:	M	E	N	D	Y	N	ETX
Binary	02	51	50	43	3A	4D	45	4E	44	59	4E	03

	00	10	20	30	40	50	60	70
00	DE	0	@	P	p			
01	SH	D1	!	1	A	Q	a	q
02	SX	D2	"	2	B	R	b	r
03	EX	D3	#	3	C	S	c	s
04	ET	D4	\$	4	D	T	d	t
05	EQ	NK	%	5	E	U	e	u
06	AK	SN	&	6	F	V	f	v
07	BL	EB	'	7	G	W	g	w
08	BS	CN	(	8	H	X	h	x
09	HT	EM	)	9	I	Y	i	y
0A	LF	SB	*	J	Z	j	z	
0B	HM	EC	+	K	[	k	[
0C	CL	→	,	L	¥	l	l	
0D	CR	←	=	M	]	m]	
0E	SO	↑	.	N	^	n	^	
0F	SI	↓	/	?	O	_	o	



1. Socket through protocol (TCP/IP)
2. Power on
3. When the unit is powered on, the unit sends a message "Panasonic" in incorrect" and disconnects immediately.
4. After the unit is powered on, use RS232C commands with <STX> and <ETX> to communicate with the unit.
5. [Disconnection] Disconnect the connection with following conditions.
 - A host sends CTRL+C(EXT) , CTRL+D(EOT) to the unit
 - Host send "BYE\r\n" command to the unit
 - Host sends FIN packet to the unit (FIN request by the client software on the host side)
 - 1 minutes later after last communication
 - If an error TCP protocol occurs

LAN