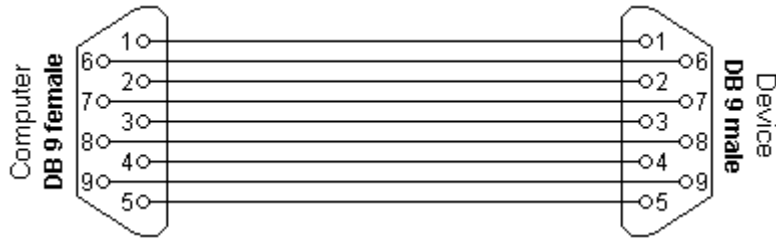


DTEN RS232 Document

1.Pin assignment

- ◆ The DTEN is DB9 Type.
- ◆ Pin2 is TXD, Pin3 is RXD. Connecting to the computer and the DTEN is a straight line. (Pin one one correspondence).



2.Protocol requirements

- ◆ Serial port setting:

Setting item	Value
Baud rate	9600
Data bits	8
Stop bits	1
Check bit	None
Flow control	None

- ◆ Protocol data format:

	Connect	Description	Remark
1	0xAA	Head	Fixed value
2	0xBB		Fixed value
3	0xCC		Fixed value
4	See next page	Main Command	And sub command to represent a command

5	See next page	Sub Command	And main command to represent a command
6	0x00	Data bits	Data
7	Checksum	Checksum	Total value from fourth to sixth
8	0xDD	tail	Fixed value
9	0xEE		Fixed value
10	0xFF		Fixed value

3.Set Protocol:

Function	Model	Code	Note
Power	ON	AA BB CC 01 00 00 01 DD EE FF	
	OFF	AA BB CC 01 01 00 02 DD EE FF	
Change Input	AV	AA BB CC 02 02 00 04 DD EE FF	
	VGA3	AA BB CC 02 0B 00 0D DD EE FF	
	VGA1	AA BB CC 02 03 00 05 DD EE FF	
	VGA2	AA BB CC 02 04 00 06 DD EE FF	
	HDMI1	AA BB CC 02 06 00 08 DD EE FF	
	HDMI2	AA BB CC 02 07 00 09 DD EE FF	
	HDMI3	AA BB CC 02 05 00 07 DD EE FF	
	PC	AA BB CC 02 08 00 0A DD EE FF	
Volume	DTEN	AA BB CC 02 0A 00 0C DD EE FF	
	00—100	AA BB CC 03 00 xx ** DD EE FF	xx=volume(16 binary system), for example volume is 30=1E, ** is checksum, XX=1E, **=03+00+1E=21
	MUTE	AA BB CC 03 01 00 04 DD EE FF	
Video Mode	UNMUTE	AA BB CC 03 01 01 05 DD EE FF	
	16:9	AA BB CC 08 00 00 08 DD EE FF	
	4:3	AA BB CC 08 01 00 09 DD EE FF	
Computer P	Point to point	AA BB CC 08 07 00 0F DD EE FF	
	ON	AA BB CC 09 01 00 0A DD EE FF	
function	OFF	AA BB CC 09 00 00 09 DD EE FF	
	model	code	note
Remote Control	WIN	AA BB CC 07 0B 00 12 DD EE FF	
	Space	AA BB CC 07 46 00 4D DD EE FF	
	Alt+Tab	AA BB CC 07 1D 00 24 DD EE FF	
	Alt+F4	AA BB CC 07 1F 00 26 DD EE FF	

NUM_1	AA BB CC 07 00 00 07 DD EE FF	
NUM_2	AA BB CC 07 10 00 17 DD EE FF	
NUM_3	AA BB CC 07 11 00 18 DD EE FF	
NUM_4	AA BB CC 07 13 00 1A DD EE FF	
NUM_5	AA BB CC 07 14 00 1B DD EE FF	
NUM_6	AA BB CC 07 15 00 1C DD EE FF	
NUM_7	AA BB CC 07 17 00 1E DD EE FF	
NUM_8	AA BB CC 07 18 00 1F DD EE FF	
NUM_9	AA BB CC 07 19 00 20 DD EE FF	
NUM_0	AA BB CC 07 1B 00 22 DD EE FF	
Display	AA BB CC 07 1C 00 23 DD EE FF	
Refresh	AA BB CC 07 4C 00 53 DD EE FF	
Input	AA BB CC 07 07 00 0E DD EE FF	
Home	AA BB CC 07 48 00 4F DD EE FF	
Menu	AA BB CC 07 0D 00 14 DD EE FF	
Delete	AA BB CC 07 40 00 47 DD EE FF	
Energy	AA BB CC 07 4E 00 55 DD EE FF	
UP	AA BB CC 07 47 00 4E DD EE FF	
DOWN	AA BB CC 07 4D 00 54 DD EE FF	
LEFT	AA BB CC 07 49 00 50 DD EE FF	
RIGHT	AA BB CC 07 4B 00 52 DD EE FF	
ENTER	AA BB CC 07 4A 00 51 DD EE FF	
Point	AA BB CC 07 06 00 0D DD EE FF	
Back	AA BB CC 07 0A 00 11 DD EE FF	
CH+	AA BB CC 07 02 00 09 DD EE FF	
CH-	AA BB CC 07 09 00 10 DD EE FF	
VOL+	AA BB CC 07 03 00 0A DD EE FF	
VOL-	AA BB CC 07 41 00 48 DD EE FF	
PageUp	AA BB CC 07 42 00 49 DD EE FF	
PageDown	AA BB CC 07 0F 00 16 DD EE FF	
F1	AA BB CC 07 45 00 4C DD EE FF	
F2	AA BB CC 07 12 00 19 DD EE FF	
F3	AA BB CC 07 51 00 58 DD EE FF	
F4	AA BB CC 07 5B 00 62 DD EE FF	
F5	AA BB CC 07 44 00 4B DD EE FF	
F6	AA BB CC 07 50 00 57 DD EE FF	
F7	AA BB CC 07 43 00 4A DD EE FF	
F8	AA BB CC 07 1A 00 21 DD EE FF	
F9	AA BB CC 07 04 00 0B DD EE FF	
F10	AA BB CC 07 59 00 60 DD EE FF	
F11	AA BB CC 07 57 00 5E DD EE FF	
F12	AA BB CC 07 08 00 0F DD EE FF	
RED	AA BB CC 07 5C 00 63 DD EE FF	

	GREEN	AA BB CC 07 5D 00 64 DD EE FF	\
	YELLOW	AA BB CC 07 5E 00 65 DD EE FF	\
	BLUE	AA BB CC 07 5F 00 66 DD EE FF	\

4.Get Protocol:

Function	Get Code	Return Code	Status	Note
Get Power status	AA BB CC 01 02 00 03 DD EE FF	AA BB CC 80 00 00 80 DD EE FF	ON	
		AA BB CC 80 01 00 81 DD EE FF	OFF	
Get Volume	AA BB CC 03 02 00 05 DD EE FF	AA BB CC 82 00 xx ** DD EE FF	Volume is xx	xx=volume (16 binary system), for example volume is 30=1E, ** is checksum, XX=1E , **=03+00+1E=21
Get Volume Status	AA BB CC 03 03 00 06 DD EE FF	AA BB CC 82 01 00 83 DD EE FF	MUTE	
		AA BB CC 82 01 01 84 DD EE FF	UNMUTE	
Get Input	AA BB CC 02 00 00 02 DD EE FF	AA BB CC 81 02 00 83 DD EE FF	AV	
		AA BB CC 81 03 00 84 DD EE FF	VGA1	
		AA BB CC 81 04 00 85 DD EE FF	VGA2	
		AA BB CC 81 05 00 86 DD EE FF	HDMI3	
		AA BB CC 81 06 00 87 DD EE FF	HDMI1	
		AA BB CC 81 07 00 88 DD EE FF	HDMI2	
		AA BB CC 81 08 00 89 DD EE FF	PC	
		AA BB CC 81 0A 00 8B DD EE FF	DTEN	
		AA BB CC 81 0B 00 8C DD EE FF	VGA3	
Get PC status	AA BB CC 09 02 00 0B DD EE FF	AA BB CC 83 00 00 83 DD EE FF	ON	
		AA BB CC 83 01 00 84 DD EE FF	OFF	
		AA BB CC 83 02 00 85 DD EE FF	SLEEP	
		AA BB CC 83 03 00 86 DD EE FF	Hibernate	