CCM PC to STATUS BD Communication Protocol

PACKET STRUCTURE

STX + TYPE + LENGTH + DATA + CRC + ETX

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| STX | TYPE | LENGTH | DATA | CHECKSUM | ETX |
| 4BYTE | 1BYTE | 2BYTE | 1BYTE | 1BYTE | 4BYTE |

STX : CCMS (Packet Start Bytes)

ETX : CCME (Packet Stop Bytes)

TYPE

|  |  |
| --- | --- |
| TYPE | Description |
| 0x01 | SCM STATUS |
| 0x02 | SEREAL COM STATUS |
| 0x03 | LAN STATUS |
| 0x04 | All LED OFF |
| 0x10 | ACK |
| 0x11 | NACK |

LENGTH : 0x0001 (Data Length)

DATA

|  |  |  |  |
| --- | --- | --- | --- |
| DATA | Description | Data | Description |
| 0x01/0x11 | SCM 1 Setting / Complete | 0x0B/0x1B | SCM 11 Setting / Complete |
| 0x02/0x12 | SCM 2 Setting / Complete | 0x0C/0x1C | SCM 12 Setting / Complete |
| 0x03/0x13 | SCM 3 Setting / Complete | 0x0D/0x1D | SCM 13 Setting / Complete |
| 0x04/0x14 | SCM 4 Setting / Complete | 0x0E/0x1E | SCM 14 Setting / Complete |
| 0x05/0x15 | SCM 5 Setting / Complete | 0x0F/0x1F | SCM 15 Setting / Complete |
| 0x06/0x16 | SCM 6 Setting / Complete | 0x21/0x24 | COM 4 COM (SCM) ON/OFF |
| 0x07/0x17 | SCM 7 Setting / Complete | 0x22/0x25 | COM 1 COM (LDM) ON/OFF |
| 0x08/0x18 | SCM 8 Setting / Complete | 0x23/0x26 | COM 2 COM (EDM) ON/OFF |
| 0x09/0x19 | SCM 9 Setting / Complete | 0x31/0x32 | LAN STATUS ON/OFF |
| 0x0A/0x1A | SCM 10 Setting / Complete |  |  |

CHECK SUM : ~[(STX[0]+STX[1]+STX[2]+STX[4]+TYPE+LENGTH[0] + LENGTH[1]+DATA) % 256]

unsigned char CalcChecksum(unsigned char \*data, int leng)

{

unsigned char csum;

csum = 0;

for (;leng > 0;leng--)

csum += \*data++;

return 0xFF - csum;

}