

```

unsigned short CRC16(puchMsg, usDataLen)

unsigned char *puchMsg ;
unsigned char usDataLen ;

{
    unsigned char uchCRCHi = 0xFF ;
    unsigned char uchCRCLo = 0xFF ;
    unsigned ulIndex ;

    while (usDataLen--)
        {
            ulIndex = uchCRCHi ^ *puchMsgg++ ;
            uchCRCHi = uchCRCLo ^ auchCRCHi[ulIndex] ;
            uchCRCLo = auchCRCLo[ulIndex] ;
        }

    return {uchCRCHi << 8 | uchCRCLo} ;
}

/*Table of CRC values for high-order byte */

static unsigned char auchCRCHi [] = {
000H,0C1H,081H,040H,001H,0C0H,080H,041H,001H,0C0H
080H,041H,000H,0C1H,081H,040H,001H,0C0H,080H,041H
000H,0C1H,081H,040H,000H,0C1H,081H,040H,001H,0C0H
080H,041H,001H,0C0H,080H,041H,000H,0C1H,081H,040H
000H,0C1H,081H,040H,001H,0C0H,080H,041H,000H,0C1H
081H,040H,001H,0C0H,080H,041H,001H,0C0H,080H,041H
000H,0C1H,081H,040H,001H,0C0H,080H,041H,000H,0C1H
081H,040H,000H,0C1H,081H,040H,001H,0C0H,080H,041H
000H,0C1H,081H,040H,001H,0C0H,080H,041H,001H,0C0H
080H,041H,000H,0C1H,081H,040H,000H,0C1H,081H,040H
001H,0C0H,080H,041H,001H,0C0H,080H,041H,000H,0C1H
081H,040H,001H,0C0H,080H,041H,000H,0C1H,081H,040H
000H,0C1H,081H,040H,001H,0C0H,080H,041H,001H,0C0H
080H,041H,000H,0C1H,081H,040H,001H,0C0H,080H,041H
001H,0C0H,080H,041H,000H,0C1H,081H,040H,001H,0C0H
080H,041H,000H,0C1H,081H,040H,000H,0C1H,081H,040H
001H,0C0H,080H,041H,001H,0C0H,080H,041H,000H,0C1H
081H,040H,000H,0C1H,081H,040H,001H,0C0H,080H,041H
000H,0C1H,081H,040H,001H,0C0H,080H,041H,001H,0C0H
080H,041H,000H,0C1H,081H,040H
}

```

/*Table of CRC values for low-order byte */

```
static unsigned char auchCRCLo [] = {  
000H,0C0H,0C1H,001H,0C3H,003H,002H,0C2H,0C6H,006H  
007H,0C7H,005H,0C5H,0C4H,004H,0CCH,00CH,00DH,0CDH  
00FH,0CFH,0CEH,00EH,00AH,0CAH,0CBH,00BH,0C9H,009H  
008H,0C8H,0D8H,018H,019H,0D9H,01BH,0DBH,0DAH,01AH  
01EH,0DEH,0DFH,01FH,0DDH,01DH,01CH,0DCH,014H,0D4H  
0D5H,015H,0D7H,017H,016H,0D6H,0D2H,012H,013H,0D3H  
011H,0D1H,0D0H,010H,0F0H,030H,031H,0F1H,033H,0F3H  
0F2H,032H,036H,0F6H,0F7H,037H,0F5H,035H,034H,0F4H  
03CH,0FCH,0FDH,03DH,0FFH,03FH,03EH,0FEH,0FAH,03AH  
03BH,0FBH,039H,0F9H,0F8H,038H,028H,0E8H,0E9H,029H  
0EBH,02BH,02AH,0EAH,0EEH,02EH,02FH,0EFH,02DH,0EDH  
0ECH,02CH,0E4H,024H,025H,0E5H,027H,0E7H,0E6H,026H  
022H,0E2H,0E3H,023H,0E1H,021H,020H,0E0H,0A0H,060H  
061H,0A1H,063H,0A3H,0A2H,062H,066H,0A6H,0A7H,067H  
0A5H,065H,064H,0A4H,06CH,0ACH,0ADH,06DH,0AFH,06FH  
06EH,0AEH,0AAH,06AH,06BH,0ABH,069H,0A9H,0A8H,068H  
078H,0B8H,0B9H,079H,0BBH,07BH,07AH,0BAH,0BEH,07EH  
07FH,0BFH,07DH,0BDH,0BCH,07CH,0B4H,074H,075H,0B5H  
077H,0B7H,0B6H,076H,072H,0B2H,0B3H,073H,0B1H,071H  
070H,0B0H,050H,090H,091H,051H,093H,053H,052H,092H  
096H,056H,057H,097H,055H,095H,094H,054H,09CH,05CH  
05DH,09DH,05FH,09FH,09EH,05EH,05AH,09AH,09BH,05BH  
099H,059H,058H,098H,088H,048H,049H,089H,04BH,08BH  
08AH,04AH,04EH,08EH,08FH,04FH,08DH,04DH,04CH,08CH  
044H,084H,085H,045H,087H,047H,046H,086H,082H,042H  
043H,083H,041H,081H,080H,040H  
}
```