**DATA COMMUNICATION**

****

NAME : Cahyo Kresno Adji

NIM : L200164016

CLASS : X

MAJOR : Informatics International

Cahyo Kresno Adji =

0x43 0x61 0x68 0x79 0x6f 0x20 0x4b 0x72 0x65 0x73 0x6e 0x6f 0x20 0x41 0x64 0x6a 0x69

Or

43 61 68 79 6f 20 4b 72 65 73 6e 6f 20 41 64 6a 69

**Checksum calculation 8bit**

43 61 68 79 6f 20 4b 72 65 73 6e 6f 20 41 64 6a 69 =CB

a=10, b=11, c=12, d=13, e=14, f=15

**8 BIT**

43

61

----+

a4

68

----+

fD

79

----+

87

6f

----+

f6

20

----+

17

4b

----+

62

72

----+

D4

65

----+

39

73

----+

bc

6e

----+

2a

6f

----+

99

20

----+

b9

41

----+

fa

64

----+

6f

6a

----+

ca

69

----+

34

One complements = cb

ff

34

---- -

cb

**Checksum calculation 16bit**

43 61 68 79 6f 20 4b 72 65 73 6e 6f 20 41 64 6a 69 = DD 06

**16BIT**

43 61

68 79

-------+

AB DA

6F 20

-------+

1A FA

4B 72

-------+

66 6C

65 73

-------+

CB DF

6E 6F

-------+

35 4E

20 41

-------+

55 8F

64 6A

------+

B9 F9

69 00

-------+

22 F9

1 Complement = FF FF – 22 F9

=DD 06

**CRC**

P = 11 0101

FCS = 5 Bit

2 Character of my first name (CA) = 43 61

43 61 = 0010 0011 0110 0001

110101 | 001000110110000100000 = 0011100100001111

110101

---------------------------------------------------------- XOR

0101100

110101

---------------------------------------------------------- XOR

0110011

110101

---------------------------------------------------------- XOR

000110100

110101

---------------------------------------------------------- XOR

00000100100

110101

---------------------------------------------------------- XOR

0100010

110101

---------------------------------------------------------- XOR

0101110

110101

---------------------------------------------------------- XOR

0110110

110101

---------------------------------------------------------- XOR

000011

R = 00011

CRC = 0011100100001111 00011