chkSum1

Compute the CheckSum1 for the Herkulex command packet

Contents

- Syntax
- Description
- Input Arguments
- Output Arguments
- Function Codes

Syntax

```
c1 = chkSum1(inString)
```

Description

c1 = chkSum1(inString) returns the CheckSum1 of the input hex-string.

CheckSum1 formula: (PacketSize ^ pID ^ CMD ^ Data[0] ^ Data[1] ^ ... ^ Data[n])&0xFE

Input Arguments

• inString - string of the hexadecimal characters representing different elements of the command packet Hex string elements: PacketSize, pID, CMD, Data[0], ..., Data[n].

Output Arguments

c1 - string

Function Codes

```
function cl = chkSuml(inString)

col = [];

for i = 1:2:(length(inString)-1)

    hex = strcat(inString(i), inString(i+1)); % Get first two characters for hex

    col = vertcat(col, hex2dec(hex));

end
```

```
temp = col(1);

for j = 2:length(col)

    temp = bitxor(temp, col(j));

end

temp = bitand(temp, hex2dec('FE'));

c1 = dec2hex(temp,2);

end
```

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