Serial protocol													
Γο eliminate any	chances of faulty	transmitted data	a convenient data	transmission pro	tocol was impleme	ented. While it ma	y seem difficult to	understand at th	e beginning it is	actually very stra	ight-forward.		
At the beginning	of the transmission	on a byte called St	tart Of Frame (SO	F) is sent which in	ndicates the begin	ning of the frame.							
After SOF the da	ta bytes are send	which contain pa	ıyload. To check v	hether the payloa	d bytes were corr	ectly received and	other two bytes co	ontaining CRC are	e sent.				
astly another So	OF byte is sent to	indicate the end	of transmission. C	RC is CRC-CCIT	Γ with initial value	0xFFFF.							
But what happen	s when payload o	or CRC byte is acc	cidentally the sam	e as SOF? A trans	smission would er	d too soon and p	oduce unexpecte	ed results halting	system's stability	. To solve the pre	oblem an escape b	yte was implemen	ited.
Escape byte is s	ent before every S	SOF or escape by	te that appears in	payload or CRC.	The actual byte is	then sent right af	ter the escape by	te with inverted fi	fth bit.				
Table1 SOF and													
SOF	0x7E 0x7D												
Escape byte	UX/D												
Fable 2 Danie dat	a franca which as	ts motor 0 speed t	to 10 mg										
0x7E	0x83	0x00	0x00	0x27	0x10	0x1f	0x83	0x7E					
Start of frame	payload byte 0		payload byte 2	payload byte 3	payload byte 4	CRC byte 0	CRC byte 1	End of frame					
Otart of frame	payload byte o	payload byte 1	payload byte 2	payload byte o	payload byte 4	ONO Byte o	ONO Dyte 1	Life of frame					
Fahle 2 shows a	hasic data frame	with SOF at the h	eginning and end	and payload conf	aining 4 hytes Ar	escane hvte was	not necessary he	ecause none of th	e navioad and C	RC bytes match	es the SOF or esca	ane hyte	
Table 2 chewe a	baolo data iraino	With Cor at the b	Joginning and one	una payioaa oom	diffing 1 bytee. 7th	cocapo byto was	not necessary be	Todado nono or a	payload and c	rto bytoo maton		apo byto.	
Γable3 Frame wi	th payload byte m	natching SOF											
0x7E	0x7E	0x7E											
Start of frame	payload byte	End of frame											
Γable4 Frame wi	th payload byte m	natching SOF and	escape byte										
0x7E	0x7D	0x5E(1)	0x7E										
Start of frame	Escape byte	payload byte	End of frame										
1) 0x7E with inv	erted fifth bit												