CHAPTER 12

UART CORE

Table 12.1 ASCII codes

Table 12.1 About codes							
\mathbf{Code}	Char	\mathbf{Code}	Char	\mathbf{Code}	Char	\mathbf{Code}	Char
00	(nul)	20	(sp)	40	@	60	(
01	(soh)	21	!	41	A	61	a
02	(stx)	22	"	42	В	62	b
03	(etx)	23	#	43	\mathbf{C}	63	\mathbf{c}
04	(eot)	24	\$	44	D	64	d
05	(enq)	25	%	45	\mathbf{E}	65	e
06	(ack)	26	&	46	F	66	\mathbf{f}
07	(bel)	27	,	47	G	67	g
08	(bs)	28	(48	Η	68	h
09	(ht)	29)	49	I	69	i
0a	(nl)	2a	*	4a	J	6a	j
0b	(vt)	2b	+	4b	K	6b	k
0c	(np)	2c	,	4c	L	6c	1
0d	(cr)	2d	_	4d	\mathbf{M}	6d	m
0e	(so)	2e		4e	N	$6\mathrm{e}$	n
Of	(si)	2f	/	4f	O	6f	O
10	(dle)	30	0	50	P	70	p
11	(dc1)	31	1	51	Q	71	q
12	(dc2)	32	2	52	R	72	\mathbf{r}
13	(dc3)	33	3	53	\mathbf{S}	73	\mathbf{s}
14	(dc4)	34	4	54	Τ	74	\mathbf{t}
15	(nak)	35	5	55	U	75	u
16	(syn)	36	6	56	V	76	v
17	(etb)	37	7	57	W	77	w
18	(can)	38	8	58	X	78	x
19	(em)	39	9	59	Y	79	У
1a	(sub)	3a	:	5a	Z	7a	${f z}$
1b	(esc)	3b	;	5b	[7b	{
1c	(fs)	3c	i	5c	\	7c	_
1d	(gs)	3d	=	5d]	$7\mathrm{d}$	}
1e	(rs)	3e	i	$5\mathrm{e}$	^	$7\mathrm{e}$	~
1f	(us)	3f	?	5f	-	7f	(del)



Figure 12.1 Transmission of a byte.

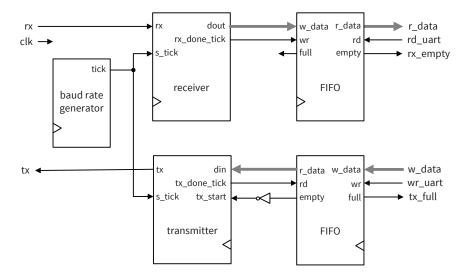
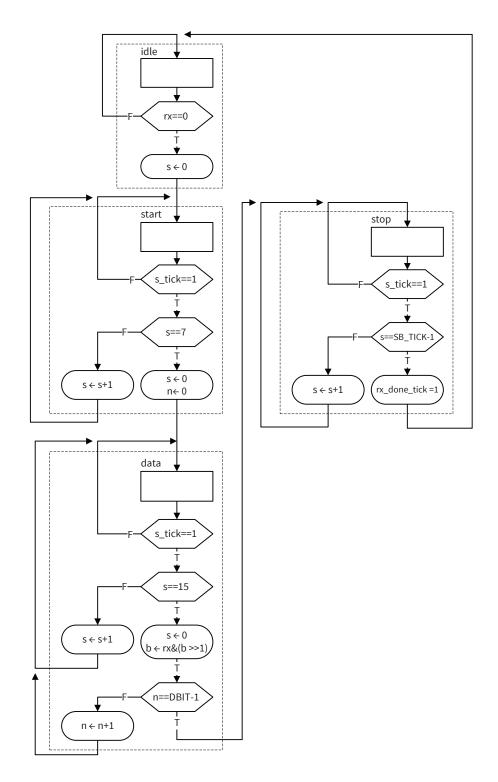
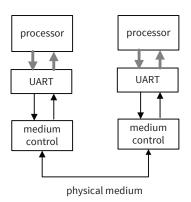


Figure 12.2 Block diagram of a complete UART.



 ${\bf Figure~12.3~~ ASMD~ chart~ of~a~UART~ receiver.}$



 ${\bf Figure~12.4~~Layered~model~of~an~emulated~serial~port.}$

