

Table 19–4. Commonly Used Baud Rates, Settings, and Errors, UCOS16 = 0

BRCLK Frequency [Hz]	Baud Rate [Baud]	UCBRx	UCBRsX	UCBRFx	Max TX Error [%]		Max RX Error [%]	
32,768	1200	27	2	0	–2.8	1.4	–5.9	2.0
32,768	2400	13	6	0	–4.8	6.0	–9.7	8.3
32,768	4800	6	7	0	–12.1	5.7	–13.4	19.0
32,768	9600	3	3	0	–21.1	15.2	–44.3	21.3
1,000,000	9600	104	1	0	–0.5	0.6	–0.9	1.2
1,000,000	19200	52	0	0	–1.8	0	–2.6	0.9
1,000,000	38400	26	0	0	–1.8	0	–3.6	1.8
1,000,000	57600	17	3	0	–2.1	4.8	–6.8	5.8
1,000,000	115200	8	6	0	–7.8	6.4	–9.7	16.1
1,048,576	9600	109	2	0	–0.2	0.7	–1.0	0.8
1,048,576	19200	54	5	0	–1.1	1.0	–1.5	2.5
1,048,576	38400	27	2	0	–2.8	1.4	–5.9	2.0
1,048,576	57600	18	1	0	–4.6	3.3	–6.8	6.6
1,048,576	115200	9	1	0	–1.1	10.7	–11.5	11.3
4,000,000	9600	416	6	0	–0.2	0.2	–0.2	0.4
4,000,000	19200	208	3	0	–0.2	0.5	–0.3	0.8
4,000,000	38400	104	1	0	–0.5	0.6	–0.9	1.2
4,000,000	57600	69	4	0	–0.6	0.8	–1.8	1.1
4,000,000	115200	34	6	0	–2.1	0.6	–2.5	3.1
4,000,000	230400	17	3	0	–2.1	4.8	–6.8	5.8
8,000,000	9600	833	2	0	–0.1	0	–0.2	0.1
8,000,000	19200	416	6	0	–0.2	0.2	–0.2	0.4
8,000,000	38400	208	3	0	–0.2	0.5	–0.3	0.8
8,000,000	57600	138	7	0	–0.7	0	–0.8	0.6
8,000,000	115200	69	4	0	–0.6	0.8	–1.8	1.1
8,000,000	230400	34	6	0	–2.1	0.6	–2.5	3.1
8,000,000	460800	17	3	0	–2.1	4.8	–6.8	5.8
12,000,000	9600	1250	0	0	0	0	–0.05	0.05
12,000,000	19200	625	0	0	0	0	–0.2	0
12,000,000	38400	312	4	0	–0.2	0	–0.2	0.2
12,000,000	57600	208	2	0	–0.5	0.2	–0.6	0.5
12,000,000	115200	104	1	0	–0.5	0.6	–0.9	1.2
12,000,000	230400	52	0	0	–1.8	0	–2.6	0.9
12,000,000	460800	26	0	0	–1.8	0	–3.6	1.8

Table 19–4. Commonly Used Baud Rates, Settings, and Errors, UCOS16 = 0 (Continued)

<b>BRCLK Frequency [Hz]</b>	<b>Baud Rate [Baud]</b>	<b>UCBRx</b>	<b>UCBRSx</b>	<b>UCBRFx</b>	<b>Max TX Error [%]</b>		<b>Max RX Error [%]</b>	
<b>16,000,000</b>	<b>9600</b>	1666	6	0	–0.05	0.05	–0.05	0.1
<b>16,000,000</b>	<b>19200</b>	833	2	0	–0.1	0.05	–0.2	0.1
<b>16,000,000</b>	<b>38400</b>	416	6	0	–0.2	0.2	–0.2	0.4
<b>16,000,000</b>	<b>57600</b>	277	7	0	–0.3	0.3	–0.5	0.4
<b>16,000,000</b>	<b>115200</b>	138	7	0	–0.7	0	–0.8	0.6
<b>16,000,000</b>	<b>230400</b>	69	4	0	–0.6	0.8	–1.8	1.1
<b>16,000,000</b>	<b>460800</b>	34	6	0	–2.1	0.6	–2.5	3.1

Table 19–5. Commonly Used Baud Rates, Settings, and Errors, UCOS16 = 1

BRCLK frequency [Hz]	Baud Rate [Baud]	UCBRx	UCBRSx	UCBRFx	Max. TX Error [%]	Max. RX Error [%]		
1,000,000	9600	6	0	8	–1.8	0	–2.2	0.4
1,000,000	19200	3	0	4	–1.8	0	–2.6	0.9
1,048,576	9600	6	0	13	–2.3	0	–2.2	0.8
1,048,576	19200	3	1	6	–4.6	3.2	–5.0	4.7
4,000,000	9600	26	0	1	0	0.9	0	1.1
4,000,000	19200	13	0	0	–1.8	0	–1.9	0.2
4,000,000	38400	6	0	8	–1.8	0	–2.2	0.4
4,000,000	57600	4	5	3	–3.5	3.2	–1.8	6.4
4,000,000	115200	2	3	2	–2.1	4.8	–2.5	7.3
8,000,000	9600	52	0	1	–0.4	0	–0.4	0.1
8,000,000	19200	26	0	1	0	0.9	0	1.1
8,000,000	38400	13	0	0	–1.8	0	–1.9	0.2
8,000,000	57600	8	0	11	0	0.88	0	1.6
8,000,000	115200	4	5	3	–3.5	3.2	–1.8	6.4
8,000,000	230400	2	3	2	–2.1	4.8	–2.5	7.3
12,000,000	9600	78	0	2	0	0	–0.05	0.05
12,000,000	19200	39	0	1	0	0	0	0.2
12,000,000	38400	19	0	8	–1.8	0	–1.8	0.1
12,000,000	57600	13	0	0	–1.8	0	–1.9	0.2
12,000,000	115200	6	0	8	–1.8	0	–2.2	0.4
12,000,000	230400	3	0	4	–1.8	0	–2.6	0.9
16,000,000	9600	104	0	3	0	0.2	0	0.3
16,000,000	19200	52	0	1	–0.4	0	–0.4	0.1
16,000,000	38400	26	0	1	0	0.9	0	1.1
16,000,000	57600	17	0	6	0	0.9	–0.1	1.0
16,000,000	115200	8	0	11	0	0.9	0	1.6
16,000,000	230400	4	5	3	–3.5	3.2	–1.8	6.4
16,000,000	460800	2	3	2	–2.1	4.8	–2.5	7.3