

APPLICATION NOTE #114

CT2577 / 79

Bus Controller (BC) Memory Map

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0 0 00 02 002 0004 **User**
THROUGH
0 0 00 0F 00F 001E **User**

Control Area (W)

0 0 00 10 010 0020 **SELECT BUS 0 (W)**
(18 018 0040 **SELECT BUS 1 (W)**)

BC - TX Mode Area 00 - SA 00 (0)

0 0 00 11 011 0022 **SYNC WORD (R/W)**
0 0 00 12 012 0024 **ERROR Register (R)**

0 0 00 13 013 0026 **User**

0 0 00 14 014 0028 **SELECTED TX SHUTDOWN (0000/0001) (R/W)**
0 0 00 15 015 002A **OVERRIDE SEL TX SHUTDOWN (0000/0001) (R/W)**

0 0 00 16 016 002C **User**
0 0 00 17 017 002E **User**

Control Area (W)

0 0 00 18 018 0030 **BC - SELECT BUS 1 (W)**
(10 010 0020 **BC - SELECT BUS 0 (W)**)

0 0 00 19 019 0032 **User**
THROUGH
0 0 00 1F 01F 003E **User**

BC - 30 Transmit Subaddresses - SA 01-1E (1-30) (R/W)

0 0 01 00	020	0040	SA1	Last Word (Word 01 if WC =1)
0 0 01 04	024	0048		Word 01 if WC = 5
0 0 01 1F	03F	007E		Word 01 if WC = 32
0 0 02 00	040	0080	SA2	
0 0 03 00	060	00C0	SA3	
0 0 04 00	080	0100	SA4	
0 0 05 00	0A0	0140	SA5	
0 0 06 00	0C0	0180	SA6	
0 0 07 00	0E0	01C0	SA7	
0 0 08 00	100	0200	SA8	
0 0 09 00	120	0240	SA9	
0 0 0A 00	140	0280	SA10	
0 0 0B 00	160	02C0	SA11	
0 0 0C 00	180	0300	SA12	
0 0 0D 00	1A0	0340	SA13	
0 0 0E 00	1C0	0380	SA14	
0 0 0F 00	1E0	03C0	SA15	
0 0 10 00	200	0400	SA16	
0 0 11 00	220	0440	SA17	
0 0 12 00	240	0480	SA18	
0 0 13 00	260	04C0	SA19	
0 0 14 00	280	0500	SA20	
0 0 15 00	2A0	0540	SA21	
0 0 16 00	2C0	0580	SA22	
0 0 17 00	2E0	05C0	SA23	
0 0 18 00	300	0600	SA24	
0 0 19 00	320	0640	SA25	
0 0 1A 00	340	0680	SA26	
0 0 1B 00	360	06C0	SA27	
0 0 1C 00	380	0700	SA28	
0 0 1D 00	3A0	0740	SA29	
0 0 1E 00	3C0	0780	SA30	

BC - TX Mode Area - SA 1F (31)

0 0 1F 00	3E0	07C0	User
THROUGH			
0 0 1F 10	3F0	07E0	User
0 0 1F 11	3F1	07E2	SYNC WORD (R/W)
0 0 1F 12	3F2	07E4	User
0 0 1F 13	3F3	07E6	User
0 0 1F 14	3F4	07E8	SELECTED TX SHUTDOWN (0000/0001) (R/W)
0 0 1F 15	3F5	07EA	OVERRIDE SEL TX SHUTDOWN (0000/0001) (R/W)
0 0 1F 16	3F6	07EC	User
THROUGH			
0 0 1F 1F	3FF	07FE	User

Control Area (W)

0 1 00 00	400	0800	SELECT RT OPERATION
0 1 00 01	401	0802	SELECT BC OPERATION

BTL / Self Test Control (W)

0 1 00 02	402	0804	RX Burst OFF / TX Burst OFF
0 1 00 03	403	0806	RX Burst OFF / TX Burst ON
0 1 00 04	404	0808	RX Burst ON / TX Burst OFF
0 1 00 05	405	080A	RX Burst ON / TX Burst ON
0 1 00 06	406	080C	OFF- LINE Self Test
0 1 00 07	407	080E	ON-LINE Self Test
0 1 00 08	408	0810	DISABLE Self Test
0 1 00 09	409	0812	User (R/W)
THROUGH			
0 1 00 0F	40F	081E	User (R/W)

BC - RX Mode Area - SA 00 (0)

0 1 00 10	410	0820	VECTOR WORD (R)
0 1 00 11	411	0822	User
0 1 00 12	412	0824	LAST COMMAND (R)
0 1 00 13	413	0826	BIT WORD (R)
0 1 00 14	414	0828	User
THROUGH			
0 1 00 1F	41F	083E	User

BC - 30 Receive Subaddresses - SA 01-1E (1-30) (R/W)

0 1 01 00	420	0840	SA1 Last Word (Word 01 if WC =1)
0 1 01 04	424	0848	SA1 Word 01 if WC = 5
0 1 01 1F	43F	087E	SA1 Word 01 if WC = 32
0 1 02 00	440	0880	SA2
0 1 03 00	460	08C0	SA3
0 1 04 00	480	0900	SA4
0 1 05 00	4A0	0940	SA5
0 1 06 00	4C0	0980	SA6
0 1 07 00	4E0	09C0	SA7
0 1 08 00	500	0A00	SA8
0 1 09 00	520	0A40	SA9
0 1 0A 00	540	0A80	SA10
0 1 0B 00	560	0AC0	SA11
0 1 0C 00	580	0B00	SA12
0 1 0D 00	5A0	0B40	SA13
0 1 0E 00	5C0	0B80	SA14
0 1 0F 00	5E0	0BC0	SA15
0 1 10 00	600	0C00	SA16
0 1 11 00	620	0C40	SA17
0 1 12 00	640	0C80	SA18
0 1 13 00	660	0CC0	SA19
0 1 14 00	680	0D00	SA20
0 1 15 00	6A0	0D40	SA21
0 1 16 00	6C0	0D80	SA22
0 1 17 00	6E0	0DC0	SA23
0 1 18 00	700	0E00	SA24
0 1 19 00	720	0E40	SA25
0 1 1A 00	740	0E80	SA26
0 1 1B 00	760	0EC0	SA27
0 1 1C 00	780	0F00	SA28
0 1 1D 00	7A0	0F40	SA29
0 1 1E 00	7C0	0F80	SA30

BC - RX Mode Area - SA 1F (31)

0 1 1F 00	7E0	0FC0	User
THROUGH			
0 1 1F 0F	7EF	0FDE	User
0 1 1F 10	7F0	0FE0	VECTOR WORD (R)
0 1 1F 11	7F1	0FE2	User
0 1 1F 12	7F2	0FE4	LAST COMMAND (R)
0 1 1F 13	7F3	0FE6	BIT WORD (R)
0 1 1F 14	7F4	0FE8	User
THROUGH			
0 1 1F 1F	7FF	0FFE	User
1 0 00 00	800	1000	Same as 000h
THROUGH			through
1 0 00 0F	80F	101E	address 00Fh (AD11 = don't care)

BC - Broadcast TX Mode Area - SA 00 (0)

1 0 00 10	810	1020	Same as 010h (AD11 = don't care)
1 0 00 11	811	1022	SYNC WORD (R/W)
1 0 00 12	812	1024	User
1 0 00 13	813	1036	User
1 0 00 14	814	1028	SELECTED TX SHUTDOWN (0000/0001) (R/W)
1 0 00 15	815	102A	OVERRIDE SEL TX SHUTDOWN (0000/0001) (R/W)
1 0 00 16	816	102C	User
1 0 00 17	817	102E	User
1 0 00 18	818	1030	Same as 018h (AD11 = don't care)
1 0 00 19	819	1032	User
THROUGH			
1 0 00 1F	81F	103E	User

BC - 30 Broadcast Transmit Subaddresses - SA 01-1E (1-30) (R/W)

1 0 01 00	820	1040	SA1 Last Word (Word 01 if WC =1)
1 0 01 04	824	1048	SA1 Word 01 if WC = 5
1 0 01 1F	83F	107E	SA1 Word 01 if WC = 32
1 0 02 00	840	1080	SA2
1 0 03 00	860	10C0	SA3
1 0 04 00	880	1100	SA4
1 0 05 00	8A0	1140	SA5
1 0 06 00	8C0	1180	SA6
1 0 07 00	8E0	11C0	SA7
1 0 08 00	900	1200	SA8
1 0 09 00	920	1240	SA9
1 0 0A 00	940	1280	SA10
1 0 0B 00	960	12C0	SA11
1 0 0C 00	980	1300	SA12
1 0 0D 00	9A0	1340	SA13
1 0 0E 00	9C0	1380	SA14
1 0 0F 00	9E0	13C0	SA15
1 0 10 00	A00	1400	SA16
1 0 11 00	A20	1440	SA17
1 0 12 00	A40	1480	SA18
1 0 13 00	A60	14C0	SA19
1 0 14 00	A80	1500	SA20
1 0 15 00	AA0	1540	SA21
1 0 16 00	AC0	1580	SA22
1 0 17 00	AE0	15C0	SA23
1 0 18 00	B00	1600	SA24
1 0 19 00	B20	1640	SA25
1 0 1A 00	B40	1680	SA26
1 0 1B 00	B60	16C0	SA27
1 0 1C 00	B80	1700	SA28
1 0 1D 00	BA0	1740	SA29
1 0 1E 00	BC0	1780	SA30

BC - Broadcast TX Mode Area 1F - SA 1F (31)

1 0 1F 00	BE0	17C0	User
THROUGH			
1 0 1F 10	BF0	17E0	User
1 0 1F 11	BF1	17E2	SYNC WORD (R/W)
1 0 1F 12	BF2	17E4	User
1 0 1F 13	BF3	17E6	User
1 0 1F 14	BF4	17E8	SELECTED TX SHUTDOWN (0000/0001) (R/W)
1 0 1F 15	BF5	17EA	OVERRIDE SEL TX SHUTDOWN (0000/0001) (R/W)
1 0 1F 16	BF6	17EC	User
THROUGH			
1 1 1F 00	C01	1802	User

Redundant Decodes (AD11 = X) and Additional 'User' Locations
(Address Locations C00h and higher are available but are not functionally tested)

1 1 1F 00	C00	1800	User
1 1 1F 01	C01	1802	User

BTL / Self Test Control (W)

1 1 00 02	C02	1804	RX Burst OFF / TX Burst OFF
1 1 00 03	C03	1806	RX Burst OFF / TX Burst ON
1 1 00 04	C04	1808	RX Burst ON / TX Burst OFF
1 1 00 05	C05	180A	RX Burst ON / TX Burst ON
1 1 00 06	C06	180C	OFF- LINE Self Test
1 1 00 07	C07	180E	ON-LINE Self Test
1 1 00 08	C08	1810	DISABLE Self Test

1 1 00 09	C09	1812	User
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THROUGH

1 1 00 09	C12	1824	User
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1 1 00 13	C13	1826	BIT WORD (R)
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1 1 00 14	C14	1828	User
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THROUGH

1 1 1F 12	FF2	1FE4	User
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1 1 1F 13	FF3	1FE6	BIT WORD (R)
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1 1 1F 14	FF4	1FE8	User
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THROUGH

1 1 1F 1F	FFF	1FFE	User
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