TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT By: TEST SYSTEMS, Inc.	CVL12.DAT 11/21/13 (18:33:36)
CUSTOMER:	TEST STARTED:
Microsemi SOC Corp. 3870 N. First Street	 Nov. 21, 2013
San Jose, CA 95134	TEST COMPLETED:
	Nov. 21, 2013

UNIT UNDER TEST IDENTIFICATION:

CORE1553BRM v4.0.007 running Verilog at 12 MHz (CVL12) Tested on SF2-CORE1553-DB (DVP-101-000404-001) Board REV-A and M2GL\M2S-EVAL-KIT REV-C (DVP-102-000402-001 RevC) using Aeroflex ACT 4453-001-5 Transceiver and Holt PM-DB2744 Transformers

SUMMARY OF TEST RESULTS:	A-Bus	B-Bus	,
Electrical:	Passed	Passed	
Required Protocol:	Passed	Passed	
Optional Protocol:	Passed	Passed	
Noise Rejection:	Passed	Passed	
!			

CERTIFICATE OF COMPLIANCE:

TEST SYSTEMS, Inc., certifies that this MIL-STD-1553B REMOTE TERMINAL VALIDATION TEST REPORT provides the results of the RT Validation Testing performed on November 21, 2013, in Phoenix, AZ, for Microsemi SOC. TEST SYSTEMS, Inc., further certifies that this testing was in accordance with the RT VALIDATION TEST PROCEDURE dated 06-03-96 and complies with the RT Validation Test Plan (MIL-HDBK-1553 Appendix A) with the exceptions noted on page 2.

Leroy Earhart Date

TEST SYSTEMS, Inc. 217 W. Palmaire Phoenix, AZ 85021 602/861-1010

SUBTITLE:	Test Summary	DATE:	21 Nov 2013	Page:	ii
		TIME:	20:34:07	1 of 26	Ü

11	SYSTEMS, Inc.	MIL-STD-1553B	RT VALIDATION	TEST REPORT	CVL12.DAT
By:	TEST SYSTEMS	, Inc.			11/21/13 (18:33:36)

EXCEPTIONS TO THE RT VALIDATION TEST PLAN:

- 1. Step 6 of Reset remote terminal (5.2.1.5.3) is changed to repeat step 4 rather than step 5. (Error in Test Plan.)
- 2. Frequency Stability (5.1.1.10) and Terminal Fail-Safe (5.2.1.3.7) tests were not run.
- 3. Not all commands which cause the BUSY bit to be set are recorded for every test. This can be impractical in tests where 10,000 iterations are performed because of the volume of information that would be generated. Rather than recording each scenario in which the BUSY bit is set, this report provides a count of the messages in the scenarios which have the BUSY bit set.

TEST COMMENTS:

Remote Terminal Address and Status bits of Service Request, Busy and Terminal Flag were set and reset manually as required in the test plan from a laptop computer through a USB link on the unit and Subsystem Flag was set and reset using a switch on the unit.

- 5.1.1.3 Zero Crossing An additional test was run off-line to measure the time of the first half sync from +3.0 volts to -3.0 volts. The nominal time is 1500 ns. Bus A 1514 ns; Bus B 1514 ns.
- 5.1.2.3 Input Impedance magnitude measurements recorded as 9999 ohms are actually 9999 ohms or greater.
- 5.3 Noise Rejection was run with 1.7 Volts of Manchester signal rather than the 2.1 Volts as specified in the test plan in order to provide a more agressive test. It passed on Bus A with 150 mv of noise and passed on Bus B with 155 mv of noise (10 mv and 15 mv more than required).

Protocol in this report was run with the illegalization shown on pages 4 and 5 implemented with the registers within the core. This illegalization was done to demonstrate the illegalization capability of the core.

"SUBTITLE:	DATE:	21 Nov 2013	Page
	TIME:		2 of 26

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T	EST	SYSTEMS,	Inc.	MIL-STD-	1553B	RT	VALIDATION	TEST	REPORT	l cv	L12.DAT
В	у:	TEST SY	STEMS	, Inc.						11/21/13	(18:33:36)
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NOTE:

Command words are expressed in four fields with 5 bits in the first, third and fourth fields and 1 bit in the second field. Status words are expressed in four fields with 5 bits in the first and fourth fields and 3 bits in the second and third fields. Each field is given in decimal.

||TEST PERSONNEL:

Leroy Earhart Eugene O'Rourke TSI Microsemi

EQUIPMENT LIST:

	MANUFACTURER	CALIBRATION
EQUIPMENT TYPE	MODEL NO./SERIAL NO.	Date Done Date Due
1553 BUS TESTER *	 TSI 122 / 8804111 	 N/A
Oscilloscope	MSOX3054A/MY52010665	01/27/12 01/27/14
Differential Probe	 AG N2791A / PH49270334	 N/A
True RMS Voltmeter	HP 3400A / 1218A27635	04/08/13 04/08/15
Impedance Analyzer	 HP 4192A /2830J06227 	04/08/13 04/08/15
Function Generator	 Tenma 72-5015/ 8981068 	
Connection Panel	TSI 0100 / 900101	
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* The 1553 BUS TESTER was modified by installing a single board computer and the following three TSI cards inside the chassis: PC/AT PARALLEL I/O CARD, MANCHESTER CARD & 1553 NOISE GENERATOR CARD

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	SUBTITLE:	DATE:	21 Nov 2013	Page:	Ï
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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT By: TEST SYSTEMS, Inc. 11/21/13 (18:33:36) Valid, Legal Non-Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 1111111111222222222233 111111111122222222233 SA 01234567890123456789012345678901 SA 01234567890123456789012345678901 0 ----7-----0 -12345678-----6-89------1 01234567890123456789012345678901 1 01234567890123456789012345678901 2 01234567890123456789012345678901 2 01234567890123456789012345678901 3 01234567890123456789012345678901 3 01234567890123456789012345678901 4 01234567890123456789012345678901 4 01234567890123456789012345678901 5 01234567890123456789012345678901 5 01234567890123456789012345678901 6 01234567890123456789012345678901 6 01234567890123456789012345678901 7 01234567890123456789012345678901 7 01234567890123456789012345678901 8 01234567890123456789012345678901 8 01234567890123456789012345678901 9 01234567890123456789012345678901 9 01234567890123456789012345678901 10 01234567890123456789012345678901 10 01234567890123456789012345678901 11 01234567890123456789012345678901 11 01234567890123456789012345678901 12 01234567890123456789012345678901 12 01234567890123456789012345678901 13 01234567890123456789012345678901 13 01234567890123456789012345678901 14 01234567890123456789012345678901 14 01234567890123456789012345678901 15 01234567890123456789012345678901 15 01234567890123456789012345678901 16 01234567890123456789012345678901 16 01234567890123456789012345678901 17 01234567890123456789012345678901 17 01234567890123456789012345678901 18 01234567890123456789012345678901 18 01234567890123456789012345678901 19 01234567890123456789012345678901 19 01234567890123456789012345678901 20 01234567890123456789012345678901 20 01234567890123456789012345678901 21 01234567890123456789012345678901 21 01234567890123456789012345678901 22 01234567890123456789012345678901 22 01234567890123456789012345678901 23 01234567890123456789012345678901 23 01234567890123456789012345678901 24 01234567890123456789012345678901 24 01234567890123456789012345678901 25 -----25 01234567890123456789012345678901 26 01234567890123456789012345678901 27 ------27 -----28 01234567890123456789012345678901 28 01234567890123456789012345678901 29 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 01234567890123456789012345678901 31 -----31 -12345678-----6-89-----Illegal Command Detection Implemented: Yes Broadcast Implemented: Data Wrap-Around Receive SA: 30 Transmit SA: 30 Terminal Address Used: Coupling Used: Transformer Implemented Status bits: ME SRB BCR BUSY SF TF Implemented Non-Broadcast Mode Codes: 1,2,3,4,5,6,7,8,16,17,18,19 Implemented Broadcast Mode Codes: 1,3,4,5,6,7,8,17 SUBTITLE: Configuration Used DATE: 21 Nov 2013 Page: Non-Broadcast Commands TIME: 4 of 26 20:34:07

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. 11/21/13 (18:33:36) Valid, Legal Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 111111111122222222233 111111111122222222233 SA 01234567890123456789012345678901 SA 01234567890123456789012345678901 0 ----7-----0 -1-345678------1 01234567890123456789012345678901 2 01234567890123456789012345678901 3 01234567890123456789012345678901 4 01234567890123456789012345678901 5 01234567890123456789012345678901 6 01234567890123456789012345678901 7 01234567890123456789012345678901 8 01234567890123456789012345678901 9 01234567890123456789012345678901 10 01234567890123456789012345678901 11 01234567890123456789012345678901 12 01234567890123456789012345678901 13 01234567890123456789012345678901 13 14 01234567890123456789012345678901 15 01234567890123456789012345678901 16 01234567890123456789012345678901 17 01234567890123456789012345678901 18 01234567890123456789012345678901 19 01234567890123456789012345678901 19 20 01234567890123456789012345678901 21 01234567890123456789012345678901 21 22 01234567890123456789012345678901 23 01234567890123456789012345678901 24 01234567890123456789012345678901 25 -----26 01234567890123456789012345678901 28 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 31 -1-345678-----Test STAT abbreviation definitions: ABRT: Test Aborted BCR: Broadcast Received BRTF: Brdcst Rcvd+TermFlag CS: Clear Status BUSY: Busy Bit DBA: Dynamic Bus Accepted DC: Don't Care EF: Error Found Inhb: Operator Inhibited INVL: Invalid Test MBR: Msg Err+Brdcst Rcvd | MBRT: ME+TF+BCR ME: Message Error MTF: MsgErr+TermFlag NR: No Response NRun: Not Run RIF: Respond In Form SF: Subsystem Flag SR: Service Request TF: Terminal Flag TO: Timed Out VR: Valid Response Configuration Used SUBTITLE: DATE: 21 Nov 2013 Page: Broadcast Commands TIME: 20:34:07 5 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. 11/21/13 (18:33:36) Limits Units B U S A Ref. Section Test Description BUS (Xformr Coupled) Meas. STAT Meas. STAT **|**5.1.1 OUTPUT CHARACTERISTICS 5.1.1.1 OUTPUT AMPLITUDE Max 18.0-27.0 Vpp 19.81 Pass | 19.88 Pass | 18.0-27.0 19.56 Pass Vpp 19.56 Pass ||5.1.1.2 OUTPUT RISE TIME-Sync | 100- 300 | ns 204 | Pass 201 | Pass| ||5.1.1.2|OUTPUT RISE TIME-Data 100- 300 204 | Pass | ns 201 Pass ||5.1*.*1.2 OUTPUT FALL TIME-Sync 100- 300 204 | Pass| 195 | Pass ns ||5.1.1.2 205 |Pass| OUTPUT FALL TIME-Data 100- 300 ns 200 | Pass| 5.1.1.3 ZERO CROSSING STAB. 500ns Tzcp 475- 525 ns 498 |Pass| 494 Pass 1000ns Tzcp 975-1025 1003 | Pass | 1004 Pass 1500ns Tzcp 1475-1525 1496 | Pass | 1497 ns |Pass| 2000ns Tzcp 1975-2025 1997 | Pass | 1997 ns Pass 500ns Tzcn 475- 525 502 Pass ns 496 Pass 1000ns Tzcn 975-1025 ns | 1005 | Pass | 1006 | Pass | 1507 | Pass | 1507 1500ns Tzcn 1475-1525 Pass ns 2000ns Tzcn 1975-2025 2005 | Pass | 2005 Pass DISTORTION, OVERSHOOT 5.1.1.4 AND RINGING ≤ ± 900 | тVр 50 |Pass| 50 Pass 5.1.1.5 OUTPUT SYMMETRY (0000)-53 | Pass| ≤ + 250 mVp | 9 Pass ≤ ± 250 (5555)-53 |Pass| mVp 10 Pass (7FFF) ≤ ± 250 mVp -31 | Pass| 20 Pass (8000)≤ ± 250 | mVp | -39 |Pass| 13 | Pass| (AAAA) ≤ ± 250 πVp -46 Pass 11 |Pass| ≤ ± 250 (FFFF) mVp | -32 | Pass | 18 Pass 5.1.1.6 OUTPUT NOISE with power on 14 mVrms 8 Pass 8 Pass with power off 14 mVrms Pass 1 Pass 5.1.1.7 OUTPUT ISOLATION 45 db 72 Pass 72 | Pass| Active Bus 18.0-27.0 Vpp 19.81 Pass | 19.88 Pass | Inactive Bus qqVm 5 Pass 5 Pass 5.1.1.8.1 POWER ON/OFF NOISE Power Up Amplitude \leq \pm 250 πVp 180 Pass 200 Pass Pulse Width us .1 .1 Power Down Amplitude πVp 50 Pass ≤ ± 250 50 Pass Pulse Width us .1 .11 5.1.1.8.2 POWER ON RESPONSE protocol Pass Pass SUBTITLE: Electrical Tests DATE: 21 Nov 2013 | Page: 5.1.1 Output Characteristics (XFR) TIME: 20:34:07 6 of 26

By: TEST SYS	STEMS, Inc.			111,	/21/13	(18:33	3:36
Ref. Section	Test Description (Xformr Coupled)	Limits	 Units 	B U S Meas.	A STAT	B U S Meas.	B
5.1.1.9	 TERMINAL RESPONSE TIME				! ! ! ! !		
	Transmit	4.0-12.0	us	6.57	 Pass	6.55	l I⊃as
	Receive	4.0-12.0	us		Pass	6.38	
	RT-UUT	4.0-12.0	us		Pass	6.38	
	Mode Command	4.0-12.0	us		Pass	6.55	
5.1.1.10	FREQUENCY STABILITY		 		 !		<u> </u>
	Min. Frequency		kHz		:		:
	Max. Frequency		kHz		i i		
	Avg. Frequency		kHz		į į		
5.1.2 5.1.2.1.1	INPUT CHARACTERISTICS ZERO CROSSING			į	 		
	DISTORTION		!				
	Min. Deviation	≤ -150	ns		Pass	-177	Pa
	Max. Deviation	≥ 150	ns	167	Pass	173	₽a
	Plus 150 nsec	protocol			Pass		Pa
	Minus 150 nsec	protocol		<u> </u> 	Pass		₽a I
5.1.2.1.2	AMPLITUDE VARIATIONS						
	1st CS threshold	200- 860	mVpp	606	Pass	580	Рa
	1st NR threshold	200- 860	mVpp	606	Pass	580	Pa
5.1.2.1.3	RISE AND FALL TIME				[
5.1.2.1.3.1	TRAPEZOIDAL	protocol			Pass		Рa
5.1.2.1.3.2	SINUSOIDAL	protocol			Pass		Pa
1.2.2	COMMON MODE REJECTION						
	+10 volt	protocol		ĺ	Pass		ļРа
		protocol			Pass		Pa
	±10 volt	protocol			Pass		₽a
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SUBTITLE: El	ectrical Tests	·	TE:	 21 Nov	1	Page:	

ef. Section	Test Description (Xformr Coupled)	Limits	Units	B U S Meas.	A STAT	B U S Meas.	B STA
5.1.2.3	INPUT IMPEDANCE						j 1
	75 kHz Power ON Phase Angle	 ≥ 1000 	ohms	9999 46	 Pass 	9999 42	 Pas
	100 kHz Power ON Phase Angle	 ≥ 1000	ohms	9999 18	Pass	9999 9	Pas
	250 kHz Power ON Phase Angle	 ≥ 1000 	ohms degs	8155 -62	 Pass 	7 4 35 -66	 Pas
	500 kHz Power ON Phase Angle	 ≥ 1000 	ohms degs	3753 -77	 Pass	3432 -79	 Pas
	1.0 MHz Power ON Phase Angle	 ≥ 1000 	ohms degs	1846 -83	 Pass 	1690 -84	 Pas
	75 kHz Power OFF Phase Angle	1 ≥ 1000 	ohms degs	9999 38	 Pass		Pas
	100 kHz Power OFF Phase Angle	≥ 1000	ohms degs	9999 5	 Pass 		 Pas
	250 kHz Power OFF Phase Angle	≥ 1000	ohms degs	7018 -65	Pass		 Pa:
	500 kHz Power OFF Phase Angle	≥ 1000	ohms degs	3280 -78	 Pass		Pa
	1.0 MHz Power OFF Phase Angle	≥ 1000	ohms degs	 1616 -84	 Pass 		 Pa;
			 	 	 		
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Reference	Test De	escrip	tion		ви	SA		BUSB			
Section	Bus: (rum	_		cnt)	Command	Response	STAT	1	Response	STAT	
5.2.1.1 5.2.1.1.1	Response to										
	Valid,	Legal	Comm	ands	 3-0-01-00	3-0-0-00	cs	 30.01.00	3-0-0-00	l lcs	
	A: (1792/	0/	0)	3-0-01-00		CS	300100		cs	
	B: (1792/	0/	0)	3-1-00-18 	3-0-0-00	cs I	3-1-00-18	3-0-0-00	cs	
	Valid,	Illeg	al Co	mmands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs	
	A: (128/	0/	0)	3-0-25-00	3-4-0-00	ME	302500	3-4-0-00	ME	
	B:(128/	0/	0}	3-1-00-18	3-4-0-00	ME 	3-1-00-18	3-4 0 00	ME	
	 Invali	d Comm	ands		3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs	
	A: (61440/	0/	0)	0-0-00-00		NR	0.0.00-00		NR	
	B: (61440/	0/	0)	3-1-00-18	3-0-0-00	CS 	3-1 00-18	3-0-0-00	CS 	
	 Legal	Mode C	omman	.ds	3-0-01-00	3 -0-0-00	 CS	3-0-01-00	3-0-0:00	j cs	
	A: (16/	0/	0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	cs	
	B: (16/	0/	0)	3-1-00-18	3-0-0-00	CS 	3-1-00-18	3-0-0-00	cs	
	Illega	l Mode	Comm	ands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	 cs	
	A: (6/	0/	0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME	
	B: (6/	c/	0}	3-1-00-18	3-4-0-00	ME 	3-1, -00 -18	3-4-0-00	ME 	
	 Undefi	ned Mo	de Co	mmands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	 cs	
	A: (98/	0/	0)	3-0-00-00	3-4-0-00	ME	3-0-00-00	3 - 4 - 0 - 00	ME	
	B:(98/	0/	0)	3-1-00-18	3 4-0 00	ME 	3-1-00-18	3 4.0 00	ME 	
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||TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT | CVL12.DAT By. TEST SYSTEMS Inc 111/21/13 (18.33.36) |

Reference	Test De	BUSA			BUS B					
Section	Bus: (run c			cnt)	Command	Response	STAT	Command	Response	STAT
		a		3			 			
.2.1.1	Response to									
5.2.1.1.1	RT Respon						 			<u> </u>
	Broadca	ist Co	mmanq	Ş						<u> </u>
	Valid,	Legal	Comm	ands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
	A: (896/	0/	0)	31-0-01-00		NR	31-0-01-00		NR
	B: (896/	0/	0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18		BCR
	 Valid,	Illeg	al Co	mmands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	 CS
	A: (1024/	0/	0)	31-0-25-00		NR	31-0-25-00		NR
	B: (1024/	0/	0)	3-1-00-18		MBR	3-1-00-18	3-4-0-16	MBR
							<u> </u>			
	 Invalid	d Comm	ands				N/A			 N/
	İ				į į		N/A	İ		N/
					1 1		N/A			N/
				7						
	Legal N	3-0-01-00		CS	3-0-01-00		1			
	A: (8/	0/	0)	31-0-00-17		NR	31-0-00-17		NR
	B:(8/	0/	0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0 C 16	BCR
	 Illegal	L Mode	Comm	iands	3-0-01-00	3-0-0-00	cs	 3001-00	3-0-0-00	 CS
	A: (14/	0/	0)	31-0-00-20		NR	31-0-00-20		NR
	B: (14/	0/	0)	3-1-00-18	3-4-0-16	MBR	:	3-4-0-16	1
	Undefin				3-0-01-00		•		3-0-0-00	!
	A: (98/	0/	0)	31-0-00-00		NR	31-0 00-00		NR
	B: (98/	٥/	0)	3-1-00-18	3 4 0-16	MBR 	3-1-00-18	3 4-0-16	MBF
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5.2.1.1. Response to Command Words 10 of 26 |

eference	Test D	escrip	tion		ви	S A		виѕв				
Section	1	cut/ error		cnt)	Command	Response	STAT	Command	Response	STA		
.2.1.1	Response t	o Comma	and W	ords	 					.		
.2,1.1,2	RT-RT Re											
	Comman	d Word:	5				İ	i i		İ		
	Non-Br	oadcas	t Rec	eive	į į		ĺ	į į		j		
	Comm	ands					 	 				
	Valid,	Legal	Comm	ands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS		
	A: (896/	0/	0)	3-0-01-01	3-0-0-00	CS	3-0-01-01	3-0-0-00	CS		
	B: (896/	0/	0)	: :	4-0-0-00	!	4-1-01-01		CS		
					3-1-00-18	3-0-0-00	CS 	3-1-00-18	3-0-0-00	CS 		
	Valid	Illeg	പ്ര	mmanda	 	2 2 2 2	l ac	<u> </u>		lag		
	Valla,	64/	ar co	0)	: !		CS ME	3-0-25-01	3-0-0-00 3-4-0-00			
	B:(64/	0/	0)	:		CS	:	4-0-0-00	les		
			7				ME	¦	3-4-0-00	ME		
		1.0	,					i 				
	1	.d Comm		-1	:	3-0-0-00	CS	1	3 0.0.00	!		
	A: (B: (30720/ 30720/	o/ o/	0) 0)	0.0.00 00		NR CS	0-0-00-00		NR CS		
	l B:(307207	0/	0)	3-1-00-18	20-00 30-0-00	:	: :	3 · 0 · 0 · 00	CS		
				-				<u> </u>				
	i =	Mode C			;	3-0-0-00	CS	: :	3-0-0-00	1		
	A: (B: (2/ 2/	o/ o/	0)	1	3.0-0-00	cs cs	:	3 -0 -0 -00	!		
	 B: (2.1	07	0)	:	4-0-0-00 3-0-0-00		1	4-0-0-00 3-0-0-00			
			_]			
	-	ıl Mode			3-0-01-00	!	CS	3.0.01-00	!	CS		
	A: (4/	0/	0)	:	3-4-0-00	ME CS	3-0-00-20	!			
	B: (4/	0/	0)	;	4-0-0-00	ME	i	4-0-0-00 3-4-0-00	1		
					3-1-00-16	3-4-0-00		3 -1 00-18	3-4-0-00 			
	Undefi	ned Mo	de Co	mmands	3-0-01-00	3-0-0-00	lcs	3-0-01-00	3 ·0 0 · 00	 cs		
	A: (58/	0/	0)	3-0-00-00		ME	1	3-4-0-00	ME		
	В: (58/	0/	0)	4-1-01-00	1	!	1	4-0-0-00	CS		
					3-1-00-18	3-4-0-80	ME	3-1-00-18	34-0-00	ME		
	1											
						1		<u> </u>	 			

eference Section	Test D	BUS A		STAT	BUS B		STAT			
	1									1
.2.1.1	Non-Br		to s							
	Valid.	Legal	Comm	ands	 3-0-01-00	3-0-0-00	cs	 3001-00	3.0.0 00	cs
	A: (896/	0/	0)	4.0.01.01		NR	4-0-01-01		NR
	B: (896/	0/	0)	3-1-01-01	3-0-0-00	cs	3-1-01-01		cs
		·	·		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
]			 		
	Valid,	Illeg	al Co	mmands	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	CS
	A: (64/	0/	0)	4-0-02-01		NR	4-0-01-01		NR
	B: (64/	0/	0)	3-1-26-01	3-4-0-00	ME	3-1-26-01	3-4-0-00	ME
					3-1-00-18	3-4-0-00	ME 	3-1-00-18	3-4-0-00	ME
	T7	.d Comm					laa			
					!	3-0-0-00	CS	3001-00		CS
	A: (30720/	0/	0)	2-0-01-00	!	NR	2.0.01.00		NR
	B:(30720/	0/	0)	3-1-00-18	!	NR CS	3 -1 -00 - 18	3-0-0-00	NR CS
					 			 		[
	Legal	Mode C	omman	ds	3-0-01-00	3-0-0.00	cs	3-0-01-00	3-0-0-00	CS
	A: (14/	0/	0)	4-0-01-00		NR	4-0-01-00		NR
	В:(14/	0/	c)	3-1-00-01	3-0-0-00	CS	3 -1 - 00 - 01	3-0-0-00	CS
					3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
					 	 	1			
	Illega	al Mode	Comm	ands	3-0-01-00	300-00	CS	3-0-03-00	3-0-0-00	CS
	A: (2/	0/	0)	4-0-01-00		NR	4-0-01-00		NR
	B: (2/	0/	0)	3-1-00-00	3-4-0-00	ME	3-1-00-00	3-4-0-00	ME
					3-1-00-18	3-4-0-00	ME 	3-1-00-18	3-4-0 00	ME
	 Undefi	ined Mo	de Co	mmands	3-0-01-00	j 3-0-0-00	cs	3-0-01-00	3-0-0-00	i Ics
	A: (40/	0/	0)	4-0-01-00	:	NR	4-0-01-00	1	NR
	B: (40/	0/	0)	:	3-4-0-00	ME	3-1-00-09	!	
	į				;	3-4-0-00	ME	3-1-00-18	!	;
						<u> </u>]			
	<u> </u>									

S 12.7

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT By: TEST SYSTEMS, Inc. 11/21/13 (18:33:36) Reference Test Description BUSA BUSB Section Bus: (rum cnt/ errors/ busy cnt) Command Response STAT Command Response STAT 5.2.1.1 Response to Command Words 5.2.1.1.2 RT-RT Response to Command Words Broadcast Receive Commands Valid, Legal Commands 3-0-01-00 3-0-0-00 CS 3.0.01.00 3.0 C-00 CS A: (31-0-01-01 - - -NR 896/ 0) 31-0-01-01 B: (896/ 0-1-01-01 0-0-0-00 CS 0-1-01-01 0-0-0 00 CS 3-1-00-18 3-0-0-16 BCR 3-1-00-18 3-0-0 16 BCR Valid, Illegal Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 0/ 31-0-25-01 - - -31-0-25-01 A: (64/ NR NR B: (64/ 0-1-01-01 0-0-0-00 CS 0) 0-1-01 01 0-0-0-00 CS 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR Invalid Commands N/A N/A N/A M/AN/A $\|A\backslash M\|$ N/AN/A| Legal Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 2/ 31-0-00-17 - - -NR 31-0-00-17 NR B: (2/ 0/ 0) 0-1-01-01 0-0-0-00 CS 0-1-01-01 0-0-0-00 CS 3-1-00-18 3-0-0-16 BCR 3-1-00-18 3-0-0-16 BCR Illegal Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0 0.00 CS A: (31-0-00-20 - - -31-0-00-20 - ... NR 0-1-01-01 | 0-0-0-00 | CS B: (4/ 0-1-01-01 0-0-0-00 CS 0/ 0) 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR Undefined Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0 00 CS A: (58/ 0/ 0) 31-0-00-00 NR 31-0-00-00 _ .. NR B: (58/ 0-1-01-00 0-0-0-00 CS 0/ 0) 0-1-01-00 0-0-0 CS 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR SUBTITLE: Required Protocol Tests DATE: 21 Nov 2013 Page: 5.2.1.1. Response to Command Words TIME: 20:34:07 13 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT By: TEST SYSTEMS, Inc. 11/21/13 (18:33:36) Reference Test Description BUS A BUSB Section Bus: (rum cnt/ errors/ busy cnt) Command Response STAT Command | Response | STAT | 5.2.1.1 Response to Command Words 5.2.1.1.2 RT-RT Response to Command Words Broadcast Transmit Commands Valid, Legal Commands N/A N/AN/A N/A N/A N/A N/A N/A Valid, Illegal Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 0/ 0-0-01-01 - - -NR A: (960/ e) 0.0-01-01 - - -NR - - -B: (960/ 0/ 31 1-01-01 NR 31-1 01-01 NR 3-1-00 18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR Invalid Commands N/A N/A N/A |A|N/A $||A \setminus N|$ N/A N/ALegal Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (0/ 0-0-01-00 - - -6/ NR 0-0-01-00 NR B: (6/ 0/ 31-1-00-01 0) NR 31-1-00-03 NR 3-1-00-18 3-0-0-16 BCR 3-1-00-18 3-0 0 16 BCR Illegal Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0 00 CS A: (0/ 10/ 0-0-01-00 - - -NR 0.0 01-00 NR B: (10/ 0/ 0) 31-1-00-00 - - - --NR 31-1-00-00 - - -NR 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR Undefined Mode Commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3 0 0-00 CS A: (40/ 0/ 0-0-01-00 NR 0-0-01 00 B: (40/ 0/ 0) 31.-1.-00-09 NR - - -32-1-00-09 NR 3-1-00-18 3-4-0-16 MBR 3-1-00-18 3-4-0-16 MBR Required Protocol Tests SUBTITLE: DATE: 21 Nov 2013 Page: 5.2.1.1. Response to Command Words TIME: 20:34:07 14 of 26

1				i	11/21/13 (18:33:36)			
Reference	Test Description	j Bī	IS A		ВТ	J S B		
Section	Bus: (rum cnt/ errors/ busy cnt)	Command	Response	STAT	Command	Response	STAT	
5.2.1.2	Intermessage Gap			,				
5.2.1.2.1	Minimum Time	,		j	İ i		İ	
	BC-UUT Transfer	3 - 0 - 05 - 00	3-0-0-00	CS	3.0 05-00	3-0-0-00	cs	
	A: (1000/ 0/ 0)	3.0.01-00	3-0-0-00	CS	3.0 01-00	3-0-0-00	cs	
į	B:(1000/ 0/ 0)	İ		İ				
	UUT-BC Transfer	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS	
	A: (1000/ 0/ 0)	3-0-01-00	3-0-0-00	İcs	3-0-01-00	3-0-0-00	cs	
į	B: (1000/ 0/ 0)	i		i	<u> </u>			
į	UUT/RT Transfer	3-0-21-00	3-0-0-00	cs	3-0-21-00	3-0-0-00	cs	
	A: (1000/ 0/ 0)	:		CS	4-1-01-00	4-0-0-00	CS	
	B: (1000/ 0/ 0)	:	3-0-0-00	CS	3-0-01-00	3-0-9-00	CS	
			1 2 0 0 00		3 4 42 60	3 0 0 00		
į	RT/UUT Transfer	4-0-01-00	4-0-0-00	DC	25-0-01-00	25-0-0 00	DC	
į	A:(1900/ 0/ 0)	3 -1 -24 - 00	3-0-0-00	cs	3-1-24-00	3-0-0-00	cs	
	B: (1000/ 0/ 0)	3-0-01-00	3-0-0-00	cs	3-0 01-00	3-0-0-00	:	
İ					j i			
İ	Mode Command w/o data	3.1-00-01	3-0-0-00	ics	3-1-00-01	3-0-0-00	cs	
ĺ	A: (1000/ 0/ 0)	3-0-01-00	3-0-0-00	İcs	3-0-01-00	3-C 0 00	cs	
į	B:(1000/ 0/ 0)	i		i	1			
į	Mode Command,	3-1-00-16	3-0-0-00	cs	3-1-00-16	3-0-0-00	CS	
İ	Transmit w/Data	:	3-0-0-00	cs	3-0-01-00	3-0-0-00	CS	
i	A: (1000/ 0/ 0)	1	1		3-0-01-00	3-0-0-00	05	
i	B: (1000/ 0/ 0)		! !				l l	
	Mode Command,	3-0-00-17	1 3-0-0-0	cs	1 2 0 00 371	3-0-0-00	[] // (*)	
	Receive w/Data		3-0-0-00	lcs	;	3-0-0-00	lcs	
	A: (1000/ 0/ 0)	3-0-01-00	2-4-0-60	l	3-0-01-00	3-0-0-00 	100	
	B: (1000/ 0/ 0)	l ‡	 	:		 		
	Broadcast BC-UUT	31-0-00-00	 	I NR	1	 		
		ì	<u> </u>	:	31-0-00-00		NR	
	, , ,	3-0-01-00	3 -0 -0-00	CS	3 0-01-00	3-0-0-00	CS	
	B:(1000/ 0/ 0) Broadcast RT/UUT	ļ	 					
	•	31-0-01-30	:	NR	31-0-01-30		NR	
	A; (1000/ 0/ 0)	:	3-0-0-00	CS	3-1-30 30	:	CS	
	B: (1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-07:00	3-0-0-00	CS	
!	Broadcast UUT/RT	31-0-00-17	1	NR		 	l nam	
		0-1-01-01	1	CS	31-0-00-7.7	!	NR	
		i.		:	0-1-01-01	<u>.</u>		
	B: (1000/ 0/ 0)	3.0.0100	3-0-0-00	CS	3-0-01-00	3.0 0.00	CS	
	Broadcast Mode Cmnd	31-1-00-01		NR	31-1-00-01	 	 NR	
	w/o data	;	3-0-0-00	CS	3-0-01-00	!	1	
	A: (1000/ 0/ 0)	1 2 2 21-00			1 2-0-01-00	a=v o ou 	1	
	B: (1000/ 0/ 0)	1	! !			 	1	
	Broadcast Mode Cmnd		 	 MTD	1	L E	 77Th	
		31-0-00-17	:	NR Loc	31-0-00 17	:	NR	
	w/data	3-0-01-00	3-0-0 00	CS	3-0-01:00	3-0-0-00	CS	
	A: (1000/ 0/ 0)	!						
	B: (1000/ 0/ 0)		1					

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. 11/21/13 (18:33:36) BUS B BUS A Reference Test Description Section Bus: (rum cnt/ errors/ busy cnt) Command Response STAT Command Response STAT ||5.2.**1.**2 Intermessage Gap Transmission Rate 5.2.1.2.2 Transmit-Transmit 3-1-01-00 3-0-0-00 CS 3-2-06-00 3-0-0-00 CS A: (19312/ 0/ 3-1-01-00 3-0 0 00 CS 3-1-07-00 3-0-0-00 CS 0) B: (19342/ 3-1-01-00 3-0-0-00 CS 3-1-06-00 3-0-0-00 CS 0/ 3-1-01-00 3-0-0-00 CS 3-1-07-00 3-0-0-00 CS Busy (usec) 0 Receive-Receive 3-0-10-00 3-0-0-00 CS 3-0-10 00 3-0-0-00 CS 3-0-11-00 3-0-0-00 CS A: (19332/ 0/ 3-0-11 00 3-0-0-00 CS 0) B: (2/ 0/ 0) 3 0 10 00 3-0-0-00 CS 3-0-10-00 3-0-0-00 CS 3-0-11-00 3-0-0-00 CS 3-0-11-00 3-0-0-00 CS Busy (usec) 0 0 Transmit-Receive 3-1-20-00 3-0-0-00 CS | 3-1-20-00 | 3-0-0-00 | CS A: (19338/ 0/ B: (2/ 0/ 3-0-21-00 3-0-0-00 CS 3-0-21-00 3-0-0-00 CS 3 ·1 ·20 - 00 3 - 0 - 0 - 00 CS 3-1-20-00 3-0-0-00 CS 3-0-21-00 3 0-0-00 CS 3-0-21-00 3-0-0-00 CS Busy (usec) 0! ||5.2.1.3 ||Error Injection ||5.2.1.3.1 | Parity 5.2.1.3.1.1 Transmit Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3.0-0-00 CS 3-1-06-00 - - -NR 3-1-06-00 ... NR 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS ||5.2*.*1.3.1.2| Receive Command 3-0-01-00 3-0-0 00 CS 3-0-01:00 3-0-0-00 CS 3-0-05-00 - - -NR 3-0-05-00 ...- NR 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 15.2.1.3.1.3 Receive Data Words 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (32/ 0/ 0) 3-0-05-00 - - -NR 3-0-05-00 - - - NR B: (32/ 0/ 0) 3-1-00-02 3-4-0-00 ME 3-1-00-02 3.4-0-00 ME SUBTITLE: Required Protocol Tests 21 Nov 2013 | Page: DATE: 5.2.1.2. Intermessage Gap TIME: 20:34:07 16 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. $\|\mathtt{B}\mathbf{y}:$ 11/21/13 (18:33:36) Reference Test Description BUS BUS B Α Section Response STAT Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command 5.2.1.3.2 Word Length 5.2.1.3.2.1 Transmit Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3 0.0.00 CS 2/ 3-1-06-00 NR 3-1-06-00 NR B: (2/ 3-1-00-02 3-0-0-00 CS 0/ 3-1-00 02 3-0-0-00 CS ||5.2.1.3.2,2**|** Receive Command Short Receive commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3:0.0:00 CS NR A: (2/ e) 3-0-05-00 NR 3-0-05-00 3-1-00-02 3-0-0-00 ICS 3 1 00-02 3-0-0-00 CS Long Receive commands 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (NR 2/3-0-05-00 3-0-05-00 NR B: (2/ 3-1-00-02 3-4-0 00 ME 3-1-00-02 3-4-0-00 ME 5.2.1.3.2.3 Receive Data Words CS 3 0-01-00 3-0-0-00 3-0-01-00 3-0-0 00 CS At! 126/ 3-0-05-00 NR 3 -0 -05-00 NR B: (126/ 3-1-00-02 3-4-0-00 ME 3-1-00:02 3-4-0-00 ME 5.2.1.3.3 Bi-Phase Encoding 5.2.1.3.3.1 Transmit Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (34/ 0/ 3-1-06-00 - - -NR 3-1-06-00 .. _ _ NR B: (34/ 0/ 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 5.2.1.3.3.2 Receive Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (34/ 3-0-05-00 - - -NR 3-0-05-00 .. - -NR B: (34/ 0/ 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 15.2.1.3.3.3 Receive Data Words 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (1088/ - - -0/ 3-0-05-00 NR ۵ì 3-0-05:00 _ _ _ NR В:(1088/ 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 ME ||5.2.1.3.4 Sync Encoding 5.2.1.3.4.1 Transmit Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0 0-00 CS A: (3-1-06-00 NR 3-1-06-00 NR 13: 1 5/ CS 0/ 3-1-00-02 3.0.0-0-00 3 -1--00-02 3-0-0-00 [CS 5.2.1.3.4.2 Receive Command 3-0-01-00 3-0-0-00 CS 3-0 01-00 3-0-0-00 CS A: (5/ 0) 3-0-05-00 - -NR 3-0-05-00 NR B: (5/ 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 0/ CS 5.2.1.3.4.3 Receive Data Words CS 3-0-01-00 3-0-0-00 3-0-01-00 3-0-0-00 CS A: (160/ 3-0-05-00 NR 0/ 0) 3-0-05-00 NR B: (160/ 0/ 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 ME ||SUBTITLE: Required Protocol Tests DATE: 21 Nov 2013 Page: 5.2.1.3.2. Word Length TIME: 20:34:07 17 of 26

					1		1			
Reference	Test Des	_			В			BUSB		
Section	Bus: (rum cnt	errors	/ busy	ent)	Command	Response	STAT	Command	Response	STA!
					į		İ			į
5.2.1.3.5	Message Le		7							100
5.2.1.3.5.1	Transmit	Comm	and		3.0.01.00	! !	CS	1	3-0-0-00	;
					3 1 -0600	:	NR	3-1-06-00		NR
					3-1-00-02 	3 4 0 - 00	ME	3-1-00-02	3-4-0-00	ME
! 5.2.1.3.5.2	Receive	Comma	nd		1 3001-00	 3-0-0-00	l lcs	3-0-01-00	3-0-0-00	l CS
۱	A: (33/	0/	0)	3-0-05 00	;	NR	3-0-01-00		NR
	B; (33/	0/	0)	-	3-4 0 00	ME	: :	3-4-0 00	
	D+ (33)	0/	0/	3-1-00-02	3.4 0.00	1	3-1-00-02	3-4-0 00	111111111111111111111111111111111111111
5.2.1.3.5.3	Receive	Mode	Comr	nand	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
	A: (2/	0/	0)	3-0-00-17	i	NR	3-0-00-17		NR
j	B:(2/	0/	0)	3-1-00-02	3-4000	ME	3-1-00-02	3-4 0 00	ME
						ļ	1			ĺ
	Transmit	Mode	Cor	nmand	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: (1/	0/	0}	3-1-00-01		NR	3-1-00-01	·	NR
	В; (1/	0/	0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
ا 5.2.1 <i>.</i> 3.5.4	RT-RT Wo	rd Co	+	Error			Loc	1		laa
]₽.C.C.⊥.⊃.∪		2/	0/		3-0-01-00	!	[CS	3-0-01-00		cs
¦	A: (B: (2/	0/	0)	4-1-01-00	ł	:	4-1-01-00	4-0-0-00	CS
	н: (2/	0/	0)	3-0-08-00		NR CS	3-0-08-00		NR
1					3-1-00-02		ME	4-1-01-00		CS
					1 3-1-00-05	3-4-0-00	1.47.07	3-1-00-02	3-4-0 00	ME
5.2.1.3.6	Contiguous	Data	L		3-0-01-00	3-0-0-00	cs	3-0-01-00	3 -00-00	lcs
į	A: (32/	0/	0)	3-0-05-00]	NR	3-0-05-00		NR
į	B: (32/	0/	0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0 00	ME
5.2.1.3.7	Terminal F	ail-S	afe				 			
5.2.1.4	Superseding	Commo	nda							
3.2.1.4	part A	COIIIII	mus		3-0-01-00		 NR	3-0-01-00		l NR
	F				- 1	3-0-0-00	CS	i	3-0-0-00	:
					i	3-0-0-00	CS	1	3-0-0-00	:
							i			
	part B				3-0-01-00		NR	3-0-01-00		NR
					3-1-00-02	3-4-0-00	ME	i	3-1-0-00	ME
					3-1-00-02	3-4-0 00	ME	3-1-00-02	3-1-0-00	ME
					1					
	part C				3-0-01-00		NR	3-0-01-00		NR
!					3-1-01-00	1	CS		3-0-0-00	1
					3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	 part D				1 3 0 01 00	. l	NR	2 0 03 55	[NTD
	harr n				3-0-01-00	:	CS	3-0-01-00	:	NR
	1 				i	3-0-0-00	ics	i	3-0-0-00	;
					3-1-00-02	3-0-0-00	ics	3-1-00-02	3-0-0-00	CS

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. 11/21/13 (18:33:36) By: BUS BUSB Reference Test Description Α Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command Response STAT 5,2,1,5 Required Mode Commands ||5.2.1.5.1 Transmit Status 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 3-1-00-02 | 3-0-0 00 | CS 2/ 3-1-00-02 3-0-0-00 CS A: / 0/ 0) B: (2/ 0/ 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 0) 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-0-01-00 - - -INR | 3-0-01-00 | - - | NR 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0 00 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 IME 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 ME 3-0-01-00 3-0-0-00 CS 3-0 01-00 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-1-00-02 | 3-0-0-00 | CS 3-1-00-02 3.0-0-00 CS §5.2.1.5.2 Xmtr Shutdown/Override 3 0 01 00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (4/ 0/ 3-0-01-00 3-0-0-00 CS $\mathbf{B}_{2} \mathbf{I}$ 4/ 0) 3-1-00-04 3-0-0-00 CS 3-1-00-04 3-0-0-00 |Ç\$ 3-0-01-00 - - -NR 3-0-01-00 - - -NR 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS NR 3-1-00-05 3-1-00-05 NR NR 3-0-01-00 - - -NR 3 0 01-00 - - -3-1-00-05 3-0-0-00 CS 3-1-00-05 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 cs 3-0-02-00 3-0-0-00 CS 3-0-01-00 3 0-0-00 |CS 5.2.1.5.3 Reset Remote Terminal Delay to Stable Response 3-1-00-08 3-0-0-00 | CS 3-1-00-08 3-0-0 OCS A: f 1764/ 0) 3-1-01-00 3-0-0:00 CS 3-1-01-00 3-0-0-00 CS В: (1764/ 07 $(T \leq 5000us)$ Shutdown 3-1-00-04 3-0-0-00 CS 3-1-00-04 3-0-0-00 CS A: (2/ 3-1-01-00 NR NR 0/ 3-1 01-00 3 1 00-08 3-0-0-00 CS B: (2/ 3-1-00-08 3-0-0-00 CS 0/ n) 3-1-01-00 3-0-0 00 CS 3-1-01-00 3-0-0 00 CS 5.2.1.6 Data Wrap-around 3-0-30-00 3-0-0-00 CS 3-0-30-00 3-0-0-00 CS A: (10000/ 3-1-30-00 3-0-0-00 CS 3-1-30 00 3-0-0-00 CS 0/ O) 1,0000/ 5.2.1.7 RT-RT Timeout Delay Time to first NR 3-0-01-00 - - -NR 3.0.01-00 - - -NR 4.1.01-00 4-0-0-00 CS 4-1-01-00 4-0-0-00 CS 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 ME $(54us \le T \le 60us)$ 57.5 57.5 Time to first CS 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 4-1-01-00 4-0-0-00 CS 4-1-01-00 4-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 57.0 $(54us \le T \le 60us)$ 57.0 Required Protocol Tests DATE: 21 Nov 2013 | Page: SUBTITLE: 5.2.1.5. Required Mode Commands TIME: 20:34:07 19 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. 11/21/13 (18:33:36) By: BUS B BUSA Reference Test Description Command Response STAT Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT 5.2.1.8 Bus Switching RT Transmitting Valid, Legal Command NR 3 -1 02 - 00 - - - -3-1-02-00 - ... NR A:(10945/ 0/ 0) 3-1-05-00 3-0-0-00 CS 3-1-05-00 3-0-0-00 CS 0/ 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS B:(10945/ o) Command w/Parity Error 3-1-02-00 3-0-0-00 CS 3-1-02-00 3-0-0-00 CS 3-1-05-00 - - -Ar (10945/ 0/ C) NR 3-1-05-00 NR B:(10945/ 0/ 0) 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-6-0-00 CS Command to another RT 3-1-02-00 3-0-0-00 CS 3-1-02 00 3-0-0-00 CS 0/ 4-1-05-00 - - -NR A: (10945/ 0) 4-1-05-00 NR B: (10945/ o/ 0) 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0 0-00 CS RT Receiving Valid, Legal Command 3.0.01.00 - - -NR 3-0-01-00 NR A: (11649/ 0/ 0) 4-1-05-00 4-0-0 00 CS 4-1-05-00 4-0-0-00 CS 3-1-05-00 3-0-0-00 CS B: (11649/ 0/ 0) 3-1-05-00 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS Command w/Parity Error 3-0-01-00 3-0-0-00 CS A: (11649/ 0/ 0) 4-1-05-00 4-0-0-00 CS 4-1-05 00 4-0-0-00 CS B: (11649/ 0/ 3-1-05-00 -- - NR 3-1-05-00 ... NR 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS Command to another RT 3-0-01-00 3-0-0-00 CS 3 0-01-00 3-0-0-00 CS A: (11649/ 0/ 0) 4-1-05-00 4-0-0-00 CS 4-1-05-00 4-0-0-00 CS B: (11649/ 0/ 0) 4-1-05-00 - -NR 4-1-05-00 -NR 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS SUBTITLE: Required Protocol Tests DATE: 21 Nov 2013 Page: 20 of 26 5.2.1.8. Bus Switching TIME: 20:34:07

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT CVL12.DAT TEST SYSTEMS, Inc. By: 11/21/13 (18:33:36) Reference Test Description BUS BUSB A Section Bus: (rum cnt/ errors/ busy cnt) Command Response STAT Command Response STAT ||5.2.1.9 Unique UUT Address part A UUT Adr 0 0-0-05-00 0-0-0-00 CS 0-0-05-00 0 0 0 0 0 CS UUT Adr 1 1-0-05-00 1-0-0-00 CS 1-0-05 00 1-0-0-00 CS UUT Adr 2 2-0-05-00 2-0-0-00 CS 2-0-05-00 2-0-0-00 CS UUT Adr 3 3-0-05-00 3-0-0-00 CS 3-0-05-00 3-0-0-00 CS UUT Adr 4 4-0-05 00 4-0-0-00 CS 4-0-05-00 4-0-0-00 CS UUT Adr 5 5-0-05-00 5-0-0-00 CS 5-0-05-00 5 0 0 00 CS UUT Adr 6 6-0-05-00 6-0-0-00 CS 6-0-05-00 6-0-0-00 CS UUT Adr 7 7-0-05-00 7-0-0-00 CS 7-0-05-00 7-0-0-00 CS UUT Adr 8 8-0-05-00 8-0-0-00 CS 8-0-05-00 8-0-0-00 CS UUT Adr 9 9-0-05-00 9-0-0-00 CS 9-0-05-00 9-0-0-00 CS UUT Adr 10 (OA) 10-0-05-00 10-0-0-00 CS 10-0-05-00 10-0-0-00 CS UUT Adr 11 (0B) 11-0-05-00 11-0-0-00 CS 11 0:05-00 11-0-0-00 CS UUT Adr 12 (OC) 12-0-05-00 12-0-0-00 CS 12-0-05-00 12-0-0-00 CS UUT Adr 13 (OD) 13-0-05-00 13-0-0-00 CS 13-0-05-00 13-0-0-00 CS UUT Adr 14 (0E) 14-0-05-00 14-0-0-00 CS 14-0-05-00 14-0-0-00 CS UUT Adr 15 (OF) | 15-0-05 00 | 15-0-0-00 | CS 15 0-05-00 15-0-0-00 CS UUT Adr 16 (10) 16-0-05:00 16-0-0-00 CS 16:0:05-00 16-0-0-00 CS UUT Adr 17 (11) | 17-0-05 00 | 17-0-0-00 | CS | 17 0-05-00 | 17-0-0-00 | CS UUT Adr 18 (12) 18-0-05-00 18-0-0-00 CS | 18-0-05-00 | 18-0-0-00 | CS UUT Adr 19 (13) 19-0-05-00 19-0-0-00 CS 19-0-05-00 19-0 0-00 CS UUT Adr 20 (14) 20-0-05-00 20-0-0-00 CS 20-0-05-00 20-0 0-00 CS UUT Adr 21 (15) 21.-0-05-00 21-0-0-00 CS 21-0-05-00 21-0-0-00 CS UUT Adr 22 (16) 22-0-05-00 22-0-0-00 CS 22-0-05-00 22-0-0-00 CS UUT Adr 23 (17) 23-0-05-00 23-0-0 00 CS 23-0-05-00 23-0-0-00 CS UUT Adr 24 (18) 24-0-05-00 24-0-0-00 CS 24-0-05-00 24-0-0-00 CS UUT Adr 25 (19) 25-0-05-00 25-0-0-00 CS 25-0-05-00 25-0-0-00 CS UUT Adr 26 (1A) 26.0.05-00 26-0-0-00 CS 26-0-05-00 26·0·0-00 CS UUT Adr 27 (1B) 27 0-05-00 27-0-0-00 CS 27-0-05-00 27-0-0-00 CS UUT Adr 28 (1C) 28 0-05-00 28-0-0-00 CS 28-0-05-00 29 0 0-00 CS UUT Adr 29 (1D) 29-0-05-00 29-0-0-00 CS 29-0-05-00 | 29-0 0 00 | CS UUT Adr 30 (1E) 30-0-05-00 30-0-0-00 CS 30-0-05-00 30-0-0-00 CS UUT Adr 31 (1F) 31-0-05-00 - - -NR 31-0-05-00 ---NR part B 31 -0 -05--00 - - -NR. 31-0-05-00 NR Required Protocol Tests SUBTITLE: DATE: 21 Nov 2013 Page: 5.2.1.9. Unique UUT Address TIME: 20:34:07 21 of 26

	, inc. MIL-STD-1553B RT VALIDA SYSTEMS, Inc.	111011 12	DI MILI		11/21/13	VL12.DZ (18:31	
Reference	Test Description	в и	S A	!	Т вт	s B	
Section	Bus: (rum cnt/errors/busy cnt)	Command	Response	STAT		Response	STAT
5.2.2.1	Optional Protocol						
5.2.2.1.1	Dynamic Bus Control	3 -1 - 00 00	3 4 0 00	ME	3 -1 00 00	3 4 0 00	ME
	A:(2/ 0/ 0)	ĺ		j i			
	3:(2/ 0/ 0)	 		[1
5,2,2,1,2 5,2,2,1,2,1	Synchronize Synchronize without data	3-1co-ci	3-0-0-00	l Ics	1 2-1-00-01	3-0-0-00	l Ics
J. Z. Z. I. Z. I	A: (2/ 0/ 0)	3-4-00-04	3-4-0-00] 3-1-00-0	3.0.0.00	
	B: (2/ 0/ 0)			! !			
5.2.2.1.2.2	Synchronize with data	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	cs
	A:(2/ 0/ 0)	ĺ			į į		ĺ
	B:(2/ 0/ 0)			1			
	SYNC Word		0000		!	0000	
5.2.2.1.3	Initiate Self-Test	3-1-00-03	30000	CS	:	3-0-0-00	CS
	A: (1964/ 0/ 0)	310100 	3-0 0 00	CS	3-1-01-00	3-0-0-00	CS
	B: $\langle 1964/ 0/ 0 \rangle$ (T \leq 100,000us)	l l i	4	k I		4	1
	(1 \(\) 100,000 \(\)	! 	4	 		4	
5,2,2,1,4	Transmit BIT word	3-1-00-19	3-0-0-00	cs	3-1-00-19	3.0.000	lcs
	A: (2/ 0/ 0)	i i			i		
	B:(2/ 0/ 0)	j j		ĺ			İ
	BIT Word		200c			200c	1
5.2.2.1.5	Selective Xmtr Shutdown	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(4/ 0/ 0)	.3-0-01-00		CS	3-0-01-00		CS
	B:(4/ 0/ 0)	3-0-00-20		ME	3-0-00-20		ME
		: :	3.0 0.00	CS CS	3-0-01-00		CS CS
		3-0-01-00 3-0-00-21		ME	3-0-01-00	3-0-0-00	ME
		3-0-00-21		cs	:	3-0-0-00	cs
		3-0-00-21	3-4-0-00	ME	3-0-00-21	:	ME
		3-0-03-00	3 - 0 - 0 - 00	CS	3-0-03-00	3-0 0-00	CS
		3-0-01-00	3-0-0 00	CS	3-0-01-00	3-0-0-00	CS
		3-0-00-20	3-4-0-00	ME	3-0-00-20		•
	1	3-0-01-00		CS	i	3-0-0-00	
	Alt Bus Selection Word	3-0-01-00	3-0-0-00	!	3-0-01-00	3-0-0-00	!
	Pri Bus Selection Word	† 	0000	!		0000	!
	FIL Bus Selection Word	 	1	 		1	'
5.2.2.1.6	Terminal Flag Bit Inhibit	3-0-01-00	 3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: (4/ 0/ 0)		3-0-0-01	DC		3-0-0-01	!
	B:(4/ 0/ 0)	3-0-01-00	3-0-0-01	TF	3-0-01-00	3 0-0-01	TF
		3-1-00-06	3-0-0-00	CS	3-1-00-06	3-0-0-00	CS
		!	3-0-0-00	CS	:	3-0-0-00	
	·	1	3 -0 -0 -01	TF	!	3-0-0-01	TF
	!		30-0-01	TF	-	3-0 0-01	
		!	!	DC	3-1-01-01	1	:
		3-0-01-00	3 - 0 - 0 - 00	CS	3-0-01-00	3-0 0 00]CS
SUBTITLE:	Optional Protocol Tests	מן	ATE:	21 N	ov 2013	Page:	
5,2,2.1	- "	- !	IME:		34:07	: -	of 20

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	Test Description Bus: (run cnt/ errors/ busy cnt) Transmit Vector Word A: (2/ 0/ 0) B: (2/ 0/ 0) VECTOR Word Transmit Last Command A: (2/ 0/ 0) B: (2/ 0/ 0)	3-1-00-18 3-0-01-00	201C 3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00	CS NR ME ME ME ME CS	3-1-00-16 3-0-01-00 3-0-01-01 3-1-00-02 3-1-00-18	3-0-0-00 201c 3-0-0-00 3-4-3-00	CS CS NR
5.2.2.1.7 5.2.2.1.8	Transmit Vector Word	3-0-01-00 3-0-01-00 3-0-01-01 3-1-00-18 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-0-0-00 201c 3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	CS CS NR ME ME ME	3-1-00-16 3-0-01-00 3-0-01-01 3-1-00-02 3-1-00-18	3-0-0-00 201c 3-0-0-00 3-4-3-00	CS CS NR
	A:(2/ 0/ 0) B:(2/ 0/ 0) VECTOR Word Transmit Last Command A:(2/ 0/ 0) B:(2/ 0/ 0)	3-0-01-00 3-0-01-01 3-1-00-18 3-1-00-2 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	201c 3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	CS NR ME ME ME ME	3-0 01 00 3-0-01-01 3-1 00-18 3-1 00-02 3-1-00 18	201c 3-0-0-00 3-4-0-00	 CS NR
5.2.2.1.8	B:(2/ 0/ 0) VECTOR Word Transmit Last Command A:(2/ 0/ 0) B:(2/ 0/ 0)	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	NR ME ME ME ME	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18	3-0-0-00 3-4-0-00	NR
5.2.2.1.8	VECTOR Word Transmit Last Command A:(2/ 0/ 0) B:(2/ 0/ 0)	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	NR ME ME ME ME	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18	3-0-0-00 3-4-0-00	NR
5.2.2.1.8	Transmit Last Command A:(2/ 0/ 0) B:(2/ 0/ 0)	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-0-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	NR ME ME ME ME	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18	3-0-0-00 3-4-0-00	NR
5.2.2.1.8	A:(2/ 0/ 0) B:(2/ 0/ 0)	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-4-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	NR ME ME ME ME	3-0-01-01 3-1-00-18 3-1-00-02 3-1-00-18	3-4-0-00	NR
	B:(2/ 0/ 0)	3-1-00-18 3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-4-0-00 3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	ME ME ME ME	3 ·1 · 00 - 18 3 · 1 · 00 - 02 3 - 1 - 00 · 18	3-4-0-00	!
		3-1-00-02 3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-4-0-00 3-4-0-00 3-4-0-00 3-0-0-00	ME ME ME	3-1-00-02 3-1-00-18		MĖ
		3-1-00-18 3-1-00-18 3-0-01-00 3-1-00-18	3-4-0-00 3-4-0-00 3-0-0-00	ME ME	3-1-00-18	3-4-0-00	i
		3-1-00-18 3-0-01-00 3-1-00-18	3-4-0-00 3-0-0-00	ME	: :		ME
		3-0-01-00 3-1-00-18	3-0-0-00				ME
		3-1-00-18		Ç\$;	3-4-0-00	ME
		: :	30-0-00	Laa	3-0-01-00		CS
		3-1-01-00		CS	3 -100-18		CS
		1 i		CS	3-1-01-00		CS
5.2.2.2	Status Word	3-1-00-18	3 - 0 - 0 - 00	CS	3 -1 - 00 - 18	3-0-0-00	CS
5.2.2.2							
J. 2. 2. 2. 1	Service Request	3-0-01-00		CS LDC	3-0-01 00		CS
	<u> </u>	3-1-01-01	**	DC Lon	3-1-01,-01		DC
		3-1-01 00		SR SR	3-1-01-00	!	SR
	 	3-1-01-00		IDC	3 -1 01 00		SR
	 	3-0-01-00		lcs	1	3-0-0-00	DC Lac
		2-0-01-00	3-0-0·00	l co	3-0-01-30	3-0-0-00	CS
5.2.2.2.2	Broadcast Command Received	31-0-01-00) 	I INR			 http://
0121212	District Comments Received	3-1-00-18	!	BCR	31-0-01-00		NR
		3-0-01-00		CS	3-1-00-18		BCR CS
		31-0-01-00	!	NR	3.0-01-00 31.0-01-00	:	NR
		3.1.01-01	!	cs	3-1-01 01	¦	cs
		31-0-01-00		NR	31-0-01-00	:	NR
		3-1-00-18	1	MBR	3-1-00-18	:	MBR
					3-1-00-10	3.4.0-70	[PILE
5.2.2.2.3	Busy	3-1-01-01	3-0-0-08	DC	3.1-01-01	3-0-0 08	i Inc
	_	3-1-02-00	:	BUSY	i	3-0-0 08	:
	į .	3 1 01-01	!	DC	!	:	•
	į	3-1-01-01	i	CS	;	3-0-0-00	:
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5.2.2.2.4	Subsystem Flag	3-1-01-01	3-0-0-04	DC	3-1-01-01	3.0-0-04	DC
		1	3-0-0-04	SF	;	3.0.0-04	SF
		3-1-01-01	3-0-0-00	DC	1	3-0-0-00	DC
	İ	1	3-0-0-00	CS	:	3-0-0-00	cs
		3-1-01-00	30-0-00	CS	3-1-01-00	!	CS
	1]	İ	Ì	j	İ
5.2.2.2.5	Terminal Flag	3-1-01-01	300-01	DC	3-1-01-01	3-0-0 01	DC
		3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
		3-1-01-00	3-0-0-00	CS	i	:	:
	İ	3-1-01-00	3-0-0-00	CS	1	3-0-0-00	1
	Optional Protocol Tests	.1	<u> </u>	<u></u>	L	 	

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By: TEST	SYSTEMS, Inc.					11/21/13	(18:3	3:36;
Reference	Test Descripti	.on	BU	rs A		BU	s B	
Section	Bus: (rum cnt/ errors/		Command	Response	STAT	Command	Response	STA
5.2.2.3	 Illegal Command				<u> </u>			İ
	part A		3 - 0 - 25 - 00	3.4 0.00	Ìме	3-0-25-00	3-4-0-00	ME
	1 *		3-1-02-00	3 -0 -0- 00	cs	3-1-02-00	3-0-0-00	cs
	i		3 -0 -25 -00		NR	3-0-25-00		NR
	İ		3-1-00-02	3 -4 -0 -00	ME	3-1-00-02	3-4-0-00	ME
			3-1 01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	cs
			3-0-25-00		NR	3-0-25-00		NR
			3-1-00-18	3-0-0-00	cs	3-1-00-18	3-0-0-00	CS
	 part B		3-1-26-00	3-4-0-00	ME	3-1-26-00	3-4-0-00	ME
			3-1-02-00	3-0-0-00	CS	3 -1 -02 -00	3-0-0-00	CS
			3-0-25-00		NR	3-0-25-00		NR
			3 -100-02	3-4-0-00	ME	3-1-00 02	3-4-0-00	ME
			3-1-01-00	3-0-0-00	CS	3-1-01-00	3.0 0.00	CS
			3-0-25-00		NR	3-0-25-00		NR
			3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
5.2.2.4	Broadcast Mode Com		į į					
5.2.2.4.1	Synchronize with		3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
	A: (2/	0/ 0)	31-1-00-01		NR	31-1-00-01		NR
	B:(2/	0/ 0)	3-1-00-18	3-0-0-16	BCR 	3-1-00-18	3-0-0-16	BCI
5.2.2.4.2	Synchronize with	ı data	3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	CS
	A: (2/	0/ 0)	31-0-00-17		NR	31-0-00-17		NR
	B: (2/	0/ 0)	3-1-00-18	3.0 0-16	BCR	3-1-00-18	3-0-0-16	BCI
	SYNC Word			0000		į į	0000	
5.2.2.4.3	Initiate Self-Te	est	31-1-00-03	<u>.</u>	 NR	31-1-00 03		NR
	A: (1968/	0/ 0)	3-1-01-00	3-0-0-00	cs	3-1-01-00	3 0-0-00	CS
	B:(1968/	0/ 0)	1	[1		ļ	
	(T ≤ 100,000us)			4 			4 I	
5.2.2.4.4	Xmtr Shutdown/Ov		!	3-0-0-00	cs	3-0-01-00	3-0-0-00	CS
	A: (4/	0/ 0)	:	3-0-0-00	CS	3-0-01-00	!	CS
	3:(4/	0/ 0)	31-1-00-04	!	NR	31-1-00-04	!	NR
			3-1-00-18	i	BCR	3-1,-00-18	:	1
	1		3-0-01-00	:	NR	3-0-01-00	!	NR
			3-0-01-00		CS	3-0-07-00		CS
			31.1-00.05	:	NR	31-1-00-05	:	NR
			3-0-01-00	:	NR	3.0-01-00	!	NR
			31-1-00-05	!	NR	31-1-00-05	!	NR
	1		3-1-00-18	!	BCR	3-1-00-18	!	BC
			3-0-01-00		CS	30-01-00		!
			3-0-01-00	3-0-0-00	CS 	3-0-01-00	3-0-0-00	CS
	<u>i</u>		<u>i , , </u>	i	<u>i</u>	<u> </u>	<u> </u>	<u>i</u>

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By: TEST SY	STEMS, In							11/21/13	,	
Reference	Test D	escrip	tion	ļ	вυ	rs a		ប្រ	s B	
Section	Bus: (run	cnt/ erro	cs/ busy	y cnt)	Command	Response	STAT	Command	Response	STAT
								! · · · · · · [
5.2.2.4.5	Selectiv	e Xmtr	Shu	tdown	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	cs
	A: (4/	0/	0)	300100	30.0.00	CS	3-0-01-00	3-0-0-00	CS
	B:(4/	0/	0)	31-0-00-20		NR	31 0 00 20		NR
				:	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3 4 0 16	MBR
1					3-0-01-00	3-0-0-00	CS	3-0-01-00	3 0 0.00	CS
					3-0-07-00	3-0-0-00	CS	3 0-01-00	3-0-0-00	CS
					31 0 00 21		NR	31-0-00-21		NR
					3 - 0 - 01 - 00	3 - 0 - 0 - 00	CS	3-0-01-00	3-0-0-00	CS
					31-0-00-21		NR	31-0-00-21		NR
					3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
					3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
					3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
1					31-0-00-20		NR	31-0-00-20		NR
					3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4 :0:16	MBF
					3-0-01-00	3 -0 -0 -00	CS	3-0-01-00	3-0-0-00	CS
					300100	3 -0-0-00	CS	3-0-01-00	3-0-0-00	CS
	Alt Bus	Select	ion	Word		0000			0000	
	Pri Bus	Select	ion	Word		0000		<u> </u>	0000	
5.2.2.4.6	Terminal	Flag	Bit	Inhibit	3-0-01-00	3-0-0-00	l CS	} 3 0.0100	3-0-0-00	 CS
	A: (4/	0/	0)	3-1-01-01	3-0-0-01	DC	3 1 -0101	3-0-0-01	DC
	В; (4/	0/	0)	3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
					31-1-00-06		NR	311 00-06		NR
j					3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCF
ļ					3-0-01-00	3-0-0-00	CS	300100	3-0-0-00	cs
					31131-07		NR	31-1-30:07		NR
İ					3-1-00-18	3-0-0-17	BRTF	3-1-00-18	3 0-0-17	BR
Ì					3-0-01-00	3.0.0-01	TF	3-0-01-00	3 0.0.01	TF
Ì					3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC
į					3-0-01-00	3-0-0-00	cs	3-0-01-00	3-0-0-00	cs
5.2.2.4.7	Reset Re	mote 1	ermi	.nal]
į	Delay	to Sta	able	Response	31-1-00-08		NR	31-1-00-08		NR
į	A: (1768/	0/	0)	:	:	cs	3 -1 -02, 00	3-0-0-00	cs
j	B: (1.768/	0/	0)		İ	į			i
į	$T \leq 500$	0us)			į	4	į	į	4	į
	Clear	Xmtr 8	Shutd	lown	3.1.00.04	3-0-0-00	 CS	3-1-00-04	 3.0-0-00	l lcs
	A: (2/	0/	0)	3-1-01-00	<u> </u>	NR	3-1-01-00	1	NR
.	В: (2/	0/	0)	31-1-00-08	!	NR	31-1-00-08	!	NR
1	_,,	_,	-,	-,	3-1-01-00	!	CS	1	3-0-0-00	CS
5.2.2.4.8	Dynamic	R110 C	nnt ro	5]	1 3-1-03 00	3-0-0-00	l cs	3_1 01 00	3-0-0-00	 CS
T. E. L. L. L. L. L. L. L. L. L. L. L. L. L.	Dynamic A: (2/	0/),),T	31-1-00-00	:	NR	31-1-00-00	1	INR
<u> </u>	A: (B: (2/	0/		-	3-4-0-16	1	3-1-00-02	!	MBI
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	, Inc. MIL-STD-15 YSTEMS, Inc.	553B RT V.	ALIDATION T	EST REPO		11/21/13	CVL12.D. 3 {18:3	
Reference	Test Descrip	tion	В	US A		BUSB		
Section	Bus: (run cnt/ error	s/busycnt)	Command	Response	STAT	Command	Response	STAT
į	Error Injection -Broadcast Mes	_	! 					
5.2.2.5.1	Parity: BC-RT			ļ		ŀ		
5.2.2.5.1.1	Command w/Pa	rity Err	or 31-0-01-01		NR	31-0-01-01		NR
]			3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
			3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
			31-0-01-00	·	NR	31-0-01-00		NR
į			3-1-00-18	3-0-0-00	ics	3-1-00-18	3-0-0-00	İcs
į			3-0-01-00	3-0-0-00	cs	3 0 01-00		CS
 5.2.2 <i>.</i> 5.1 <i>.</i> 2	Data Word Er	ror	121 0 01 01		 NR			 %YD
۲۰۲۰ <i>و ۱</i> ۲۰۳۰ ۲۰۳۰ ۱			31-0-01-01	1		31-0-01-01		NR Dan
	A: (32/	0/ 0)	:	3-0-0-16	BCR	1	3-0-0-16	BCR
ļ	B: (32/	0/ 0)	:	3-0-0-00	CS	1	3-0-0-00	CS
Į			31-0-01-00	!	NR	31-0-01-00	t .	NR
			:	-	MBR	:	3 4-0-16	MBR
			3-0-01-00	3-0-0-00	CS 	3-0-01-00	3-0-0-00	CS
5.2.2.5.2	Message Length	: BC-RT	31-0-01-01		NR	31-0-01-04		NR
	Broadcast		3-1-00-19	3-0-0-16	BCR	3-1-00-18	3 0-0-16	BCR
	A: (33/	0/ 0)	3-0-01-00	3-0-0-00	cs	3-0-01-00	3.0.0-00	cs
	B: (33/	0/ 0)	31-0-01-00	o	NR	31-0-01-00	:	NR
			3-1-00-18	3-4-0-16	MBR	3-1-00-38	:	MBR
			:	3-0-0-00	cs	3-0-01-00		CS
					 		[[
5.2.3	Noise Rejection		3-0-30-00		EF	3-0-30-00	3-0-0-00	cs
	Words Receiv	ed	76,	400,016	PASS	44,0	000,022	PASS
	Noise Level	used (mV)	150			155	1
;	A: (2315152/	4/ 0)				1	!	
	B: (1333334/	0/ 0)		İ	Ì	İ		İ
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SUBTITLE: (Optional Protocol	. Tests	I	ATE:	21 No	v 2013	Page:	
5.2.2.5	=		i_	IME:		4:07	. –	f 26

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