1.16
DC Performance Specifications

Table 1-22. VMEbus Signals (AS*, DS1*, DS0*, BCLR*, SYSCLK)

Parameter	Description	Test Conditions		Comm.	Industrial	Military	Units
V_{IH}	Minimum High-Level Input Voltage			2.0	2.0	2.0	V
V_{IL}	Maximum Low-Level Input Voltage			0.8	0.8	0.8	V
V_{OH}	Minimum High-Level Output Voltage	$V_{CC} = $ Min., $I_{OH} = -3$ mA		2.4	2.4	2.4	V
V_{OL}	Maximum Low-Level Output Voltage	$V_{CC} = $ Min., $I_{OL} = 48$ mA, 56 mA, 64 mA		0.6	0.6	0.6	V
I_L	Maximum Input Leakage Current	$V_{CC} = $ Max., $V_{IN} = 0.6$–2.4		±5	±5	±5	µA
V_{IK}	Input Clamp Voltage	$V_{CC} = $ Min.	$I_{IN} = -18$ mA	−1.2	−1.2	−1.2	V
V_{IK}	Input Clamp Voltage	$V_{CC} = $ Min.	$I_{IN} = 18$ mA	$V_{CC}+1.2$	$V_{CC}+1.2$	$V_{CC}+1.2$	V
I_{OZ}	Maximum Output Leakage Current	$V_{CC} = $ Max. GND $\leq V_{OUT} \leq V_{CC}$ All Outputs Disabled		±10	±10	±10	µA

Table 1-23. VMEbus Signals (Low Drive. All VMEbus Daisy-Chain Signals.)

Parameter	Description	Test Conditions		Comm.	Industrial	Military	Units
V_{IH}	Minimum High-Level Input Voltage			2.0	2.0	2.0	V
V_{IL}	Maximum Low-Level Input Voltage			0.8	0.8	0.8	V
V_{OH}	Minimum High-Level Output Voltage	V_{CC} = Min., I_{OH} = −8 mA		2.4	2.4	2.4	V
V_{OL}	Maximum Low-Level Output Voltage	V_{CC} = Min., I_{OL} = 8 mA		0.6	0.6	0.6	V
I_L	Maximum Input Leakage Current	V_{CC} = Max., V_{IN} = 0.6–2.4		±5	±5	±5	µA
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	I_{IN} = −18 mA	−1.2	−1.2	−1.2	V
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	I_{IN} = 18 mA	V_{CC}+1.2	V_{CC}+1.2	V_{CC}+1.2	V
I_{OZ}	Maximum Output Leakage Current	V_{CC} = Max. V_{OUT} = 0.6/2.4V All Outputs Disabled		±5	±5	±10	µA

Table 1-24. VMEbus Signals (Medium Drive. All non-High, non-Low Drive Signals, All VAC068A VMEbus Signals.)

Parameter	Description	Test Conditions		Comm.	Industrial	Military	Units
V_{IH}	Minimum High-Level Input Voltage			2.0	2.0	2.0	V
V_{IL}	Maximum Low-Level Input Voltage			0.8	0.8	0.8	V
V_{OH}	Minimum High-Level Output Voltage	V_{CC} = Min., $I_{OH} = -3$ mA		2.4	2.4	2.4	V
V_{OL}	Maximum Low-Level Output Voltage	V_{CC} = Min., $I_{OL} = 48$ mA		0.6	0.6	0.6	V
I_L	Maximum Input Leakage Current	V_{CC} = Max., $V_{IN} = 0.6–2.4$		±5	±5	±5	µA
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	$I_{IN} = -18$ mA	−1.2	−1.2	−1.2	V
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	$I_{IN} = 18$ mA	V_{CC}+1.2	V_{CC}+1.2	V_{CC}+1.2	V
I_{OZ}	Maximum Output Leakage Current	V_{CC} = Max. $V_{OUT} = 0.6/2.4$V All Outputs Disabled		±5	±5	±10	µA

Table 1-25. Non-VMEbus Signals

Parameter	Description	Test Conditions		Comm.	Industrial	Military	Units
V_{IH}	Minimum High-Level Input Voltage			2.0	2.0	2.0	V
V_{IL}	Maximum Low-Level Input Voltage			0.8	0.8	0.8	V
V_{OH}	Minimum High-Level Output Voltage	V_{CC} = Min., I_{OH} = –8 mA		2.4	2.4	2.4	V
V_{OL}	Maximum Low-Level Output Voltage	V_{CC} = Min., I_{OL} = 8 mA		0.6	0.6	0.6	V
I_L	Maximum Input Leakage Current	V_{CC} = Max., V_{IN} = 0.00/V_{CC}		±5	±5	±5	µA
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	I_{IN}=–18 mA	–1.2	–1.2	–1.2	V
V_{IK}	Input Clamp Voltage	V_{CC} = Min.	I_{IN} = 18 mA	V_{CC}+1.2	V_{CC}+1.2	V_{CC}+1.2	V
I_{OZ}	Maximum Output Leakage Current	V_{CC} = Max. GND ≤ V_{OUT} ≤ V_{CC} All Outputs Disabled		±5		±10	µA

Table 1-26. Capacitance

Parameters	Description	Test Conditions	Max.	Units
C_{IN}	Input Capacitance	T_A = 25°C, f = 64 MHz, V_{CC} = 5.0V	5	pF
C_{OUT}	Output Capacitance		7	pF

Table 1-27. Operating Current

Parameters	Description	Test Conditions	Max.	Units
I_{DD}	Maximum Operating Current	No external DC load	150	mA