



# 2.5

## DC Performance Specifications

**Table 2-4. 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	$V_{CC} = \text{Min.}$ , $I_{OH} = -3 \text{ mA}$		2.4	2.4	2.4	V
$V_{OL}$	Maximum Low-Level Output Voltage	$V_{CC} = \text{Min.}$ , $I_{OL} = 48 \text{ mA}, 56 \text{ mA}, 64 \text{ mA}$		0.6	0.6	0.6	V
$I_L$	Maximum Input Leakage Current	$V_{CC} = \text{Max.}$ , $V_{IN} = 0.6\text{--}2.4$		$\pm 5$	$\pm 5$	$\pm 5$	$\mu\text{A}$
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = -18 \text{ mA}$	-1.2	-1.2	-1.2	V
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = 18 \text{ mA}$	$V_{CC}+1.2$	$V_{CC}+1.2$	$V_{CC}+1.2$	V
$I_{OZ}$	Maximum Output Leakage Current	$V_{CC} = \text{Max.}$ , $GND \leq V_{OUT} \leq V_{CC}$ All Outputs Disabled		$\pm 10$	$\pm 10$	$\pm 10$	$\mu\text{A}$

**Table 2-5. 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	$V_{CC} = \text{Min.}$ , $I_{OH} = -8 \text{ mA}$		2.4	2.4	2.4	V
$V_{OL}$	Maximum Low-Level Output Voltage	$V_{CC} = \text{Min.}$ , $I_{OL} = 8 \text{ mA}$		0.6	0.6	0.6	V
$I_L$	Maximum Input Leakage Current	$V_{CC} = \text{Max.}$ , $V_{IN} = 0.6\text{--}2.4$		$\pm 5$	$\pm 5$	$\pm 5$	$\mu\text{A}$
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = -18 \text{ mA}$	-1.2	-1.2	-1.2	V
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = 18 \text{ mA}$	$V_{CC}+1.2$	$V_{CC}+1.2$	$V_{CC}+1.2$	V
$I_{OZ}$	Maximum Output Leakage Current	$V_{CC} = \text{Max.}$ , $V_{OUT} = 0.6/2.4\text{V}$ All Outputs Disabled		$\pm 5$	$\pm 5$	$\pm 10$	$\mu\text{A}$

**Table 2-6. 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	$V_{CC} = \text{Min.}$ , $I_{OH} = -3 \text{ mA}$		2.4	2.4	2.4	V
$V_{OL}$	Maximum Low-Level Output Voltage	$V_{CC} = \text{Min.}$ , $I_{OL} = 48 \text{ mA}$		0.6	0.6	0.6	V
$I_L$	Maximum Input Leakage Current	$V_{CC} = \text{Max.}$ , $V_{IN} = 0.6\text{--}2.4$		$\pm 5$	$\pm 5$	$\pm 5$	$\mu\text{A}$
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = -18 \text{ mA}$	-1.2	-1.2	-1.2	V
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = 18 \text{ mA}$	$V_{CC}+1.2$	$V_{CC}+1.2$	$V_{CC}+1.2$	V
$I_{OZ}$	Maximum Output Leakage Current	$V_{CC} = \text{Max.}$ , $V_{OUT} = 0.6/2.4\text{V}$ All Outputs Disabled		$\pm 5$	$\pm 5$	$\pm 10$	$\mu\text{A}$

**Table 2-7. 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	$V_{CC} = \text{Min.}$ , $I_{OH} = -8 \text{ mA}$		2.4	2.4	2.4	V
$V_{OL}$	Maximum Low-Level Output Voltage	$V_{CC} = \text{Min.}$ , $I_{OL} = 8 \text{ mA}$		0.6	0.6	0.6	V
$I_L$	Maximum Input Leakage Current	$V_{CC} = \text{Max.}$ , $V_{IN} = 0.00/V_{CC}$		$\pm 5$	$\pm 5$	$\pm 5$	$\mu\text{A}$
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = -18 \text{ mA}$	-1.2	-1.2	-1.2	V
$V_{IK}$	Input Clamp Voltage	$V_{CC} = \text{Min.}$	$I_{IN} = 18 \text{ mA}$	$V_{CC}+1.2$	$V_{CC}+1.2$	$V_{CC}+1.2$	V
$I_{OZ}$	Maximum Output Leakage Current	$V_{CC} = \text{Max.}$ , $GND \leq V_{OUT} \leq V_{CC}$ All Outputs Disabled		$\pm 5$		$\pm 10$	$\mu\text{A}$

**Table 2-8. Capacitance**

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

**Table 2-9. Operating Current**

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