

VITA 46.11 Compliance Test Software

Perform compliance verification with automated software for every new product

- Verify VITA 46.11 Commands Compliance of your product
- Verify VITA 46.11 Rules Compliance of your product
- Supports testing of Tier-1, Tier-2 and Tier-3 IPMCs
- Compatible with ipmitool and RMCP
- Can be used for any type of VITA 46.11 IPMC
 - Payload cards, SBCs, switches, power supplies etc
- Connecting through 3rd party Chassis Manager or Hybrid **DSP Mock Chassis Manager**
- Generates PDF report and parseable text/log files

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The VITA 46.11 Compliance Test Software assists board vendors and system integrators in verifying compliance with the broad set of VITA 46.11 commands and rules.

VITA 46.11 is a comprehensive standard (~300 pages) and leverages the even more comprehensive IPMI specification (>400 pages). The SOSA1 Technical Standard requires vendors to support VITA 46.11-2022 Tier-3 implementations. Additionally, risk management initiatives such as "Software Bill of Materials-based supply chain" and "deliver uncompromised" are forcing manufacturers to invest in compliant IPMC software implementations.

Hybrid DSP has an, inhouse developed, VITA 46.11-2022 Compliance Verification Test software that supports customers with a plug-and-play verification solution that runs on standard lab PCs. And most important: each new product is tested in a consistent way.

		IPMI Comma		norted	by VITA	46.11	1	2	13
		IPMI Comma	inds Supported		Tier 2	Tier 3	Tier 1	Tier	Tier
Table 10.1.1-1		NetFn	CMD	Tier 1					
Command Name	Specification Section	,,,,,,					IPMC		
Command				Chassis Manager					
							NA	NA	N/A
Comman	ds		00h	NA	NA	N/A		М	M
M Device "Global" Comman	NA	App (06h)	-	M	M	M	M		М
eserved	1.5:17.1	App (06h)	01h	O[2]	M[2]	M	O[3]	M[2]	IVI
et Device ID old Reset	1.5:17.2	App (06h)	02h	_		M	0	0	M
	1.5:17.3	App (06h)	03h	0	0		M	М	M
larm Reset et Self Test Results	1.5:17.4	App (06h)	04h	M	M	M			
anufacturing Test On	1.5:17.5	App (06h)	05h	0	0	0	0	0	0
et ACPI Power State	1.5:17.6	App (06h)	06h	0	0	0	O	0	0
et ACPI Power State	1.5:17.7	App (06h)	07h	O[2]	O ^[2]	0	O[2]	O[2]	0
let Device GUID	1.5:17.8	App (06h)	08h	0	0	0	0	0	0
roadcast "Get Device ID"[3]	1.5:17.9	App (06h)	01h	М	M	M	_		_
MC Watchdog Timer Comma	inds				IVI	IVI	М	M	M
eset Watchdog Timer	1.5:21.5	App (06h)	22h						
et Watchdog Timer	1.5:21.6	App (06h)		0	0	0	0	0	0
let Watchdog Timer	1.5:21.7	App (06h)	24h	0	0	0	0	0	
			25h	0	0	0	0		0
- Land Global Enableetes	1.5:18.1	App (06h)				-	0	0	0
let BMC Global Enables lear Message Flags[6]	1.5:18.2	-	2Eh	0	0				
et Message Flags	1.5:18.3	App (06h)	2Fh	M	-	M	0	0	
nable Message Channel	1.5:18.4	App (06h)	30h	0	M	M	0	-	O/MI7
nable Message Channel	1.5:18.5	App (06h)	31h		0	0		0	M
	N	App (06h)	32h	0	0	0	0	0	0
			- V	0	0		0	0	
						0	0		0
							Van	0	-

Screenshot of a subset of VITA 46.11-2022

Example of a PDF report

(>23 pages of tests)

Hybrid DSP

OTHER VITA 46.11 IP

VITA 46.11 Tier-3 IPMC core

- Bare-metal C implementation
- Source code available
- Developed inhouse by Hybrid DSP in the Netherlands
- Free evaluation designs available

VITA 46.11 Mock Chassis Manager

- Cost-effective Ethernet-to-IPMB converter
- Supports ipmitool and RMCP
- Supports raw commands
- Designed for easy IPMB debugging (no IPMB polling, and capturing of IPMB messages with oscilloscope)
- Runs on low-cost, off-the-shelf SAMV71 evaluation board

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VITA 46.11 automated verification test report

Test Result: PASS General information Software: vita46dll_verification_test.exe, version 1.0 Backend: rmcp, version: 0.5.4 V3UFMCP7 with optical transceiver on P2B - Manufacturer: Hybrid DSP Systems BV - Manufacturer date: 2023-03-24 14:09:00 - Serial number: - Part number: V3UFMC01P7-01-CKU0602-EAC2-01-00 - Tier: Tier-3 - Firmware revision: 2.0 Test equipment information Chassis Manager: - Name: Demo Chassis - Manufacturer: Elma Electronic.Inc. - Serial number: 214xxx1 - Version: Rev. A - Part number: None Tier-2 Note: Entire FRU Chassis manager is stored in Appendix A: Chassis

