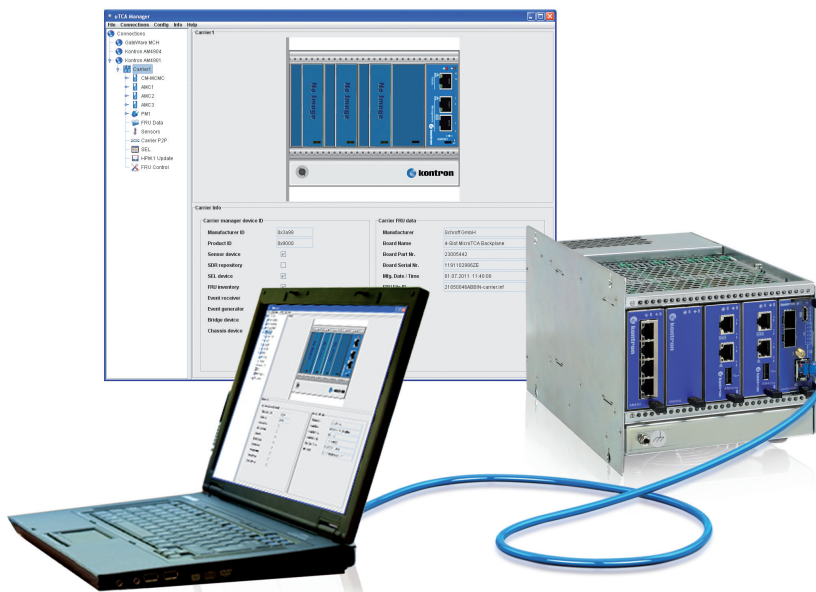


» OMVIU «



MicroTCA Configuration Management Software

- » Graphical User Interface for system configuration
- » Icon based visualisation
- » No need for cryptic CLI commands
- » Java based tool for Mac OS, Windows, Linux and others
- » Supports all standard compliant systems, MCHs and AMCs
- » Trace and error logging facilities

OMVIU

MicroTCA Configuration Management Software

The OMVIU MicroTCA Configuration Management Software is a Java based graphical tool for remote monitoring and control of MicroTCA systems. The intuitive GUI allows the simultaneous access to several MicroTCA shelf or carrier managers. The product supports the entire Kontron AMC/ MicroTCA product family and standard compliant systems (backplanes, fan units, power modules), MCHs and AMCs from other vendors. With OMVIU, there is no need to remember cryptic CLI commands: all remote control and visualization can be done per mouse click. Boards and systems may be configured without deep knowledge of IPMI, sensors and other MicroTCA specific detail.

The Graphical User Interface is easy to learn and helps to create remote controlled MicroTCA systems. Vendor specific recognition and graphical representation of boards and components is normalized for easy addition of new icon layouts as bitmaps. With its trace and error logging facilities it is possible to find non-specification conform behavior of components. During development, lab evaluation, and deployment, the remote system may be supervised with user notification on changes.

Features

- » Supports any standard compliant MicroTCA system (vendor independent)
- » Runs on every operating system with Java machine installed
- » Allows administrators to remotely monitor, diagnose and configure MicroTCA systems
- » Graphical representation of the system and boards (icons, states and connectivity)
- » Quick platform and GUI setup
- » Configuration options to control the GUI behavior
- » GUI starts up with individual configuration
- » Comprehensive tooltips explanation on selected items
- » No knowledge of system details like addresses or IDs necessary
- » Plugin interface for vendor specific applications
- » Supervisory of the remote system with popup messages on changes
- » User friendly translation of sensors SDR representation
- » Display of sensor value and state
- » SDR repository table view

- » Visualization of fabric E-keying connection results and states
- » Selection of components in the graphical or tree representation of the system
- » Remote access from any location via RMCP
- » Graphical representation of all backplane connections
- » Detailed FRU data viewer
- » Decoding and textual display of FRU data
- » Control of the remote system via standard and OEM IPMI commands:
 - cold and warm reset
 - state of FRU self test
 - display and control of LEDs
 - fan control
 - power channel control
 - sensor configuration, thresholds, hysteresis, event generation
- » Display and control of LED states, system event log (SEL) display, filter and clear
- » Sending of raw IPMI commands
- » Setting of remote system time
- » Remote update of components via HPM.1 protocol
- » Simultaneous update of multiple components
- » Trace of all IPMI commands between GUI and remote system with configurable filter
- » Error logging for fixing IPMI protocol anomalies and irregularities

Customer Options

- » Input window for customer specific configuration by IPMI OEM commands
- » Build-in web-browser for parallel access to Ethernet switch GUI
- » Redirection of Telnet session to build-in console
- » Usage of customer specific Logos and Icons
- » Shelf and system manager functionality
- » Telco alarm management
- » IPMI message trace analyzer on backplane traffic
- » Generic IPMI message generator for individual board tests
- » Long term data journaling (e.g. fan speed) with graphical representation
- » FRU data management

Sensor Readouts

The screenshot shows the uTCA Manager interface with a list of sensors. The 'Temp Air Inlet' sensor is selected, and its details are shown in the 'Analog Sensor details' section.

RecID	Nr.	Name	Type	Value/State	Threshold
0	---	id AM4901	Management Ctrl device locator	---	---
1	0	FRU0 Hot Swap	FRU HotSwap	0 2 3 4 5 6 7 8 9 0 1 2 3	---
2	1	AMC1 Hot Swap	FRU HotSwap	0 2 3 4 5 6 7 8 9 0 1 2 3	---
3	2	AMC2 Hot Swap	FRU HotSwap	0 2 3 4 5 6 7 8 9 0 1 2 3	---
4	3	AMC3 Hot Swap	FRU HotSwap	0 2 3 4 5 6 7 8 9 0 1 2 3	---
9	7	FRU0 Reconfig	System Event	0 2 3 4 5 6 7 8 9 0 1 2 3	---
9	8	Temp Air Inlet	Temperature	28.0	OK
10	9	Power Good	Power Supply	0 2 3 4 5 6 7 8 9 0 1 2 3	---
11	10	Power Good Event	Power Supply	0 2 3 4 5 6 7 8 9 0 1 2 3	---
12	11	Vcc +1.2V	Voltage	12.09	OK
13	12	Vcc +3.3V	Voltage	3.34	OK
14	13	Vcc +3.3V MMC	Voltage	3.41	OK
15	14	Vcc +1.2V	Voltage	1.20	OK
16	15	IPMI Watchdog	Watchdog	0 2 3 4 5 6 7 8 9 0 1 2 3	---
17	16	IPMB0 Link State	IPMB Phys. Link	0 2 3 4 5 6 7 8 9 0 1 2 3	---
18	17	FRU0 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
19	18	AMC1 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
20	19	AMC2 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
21	20	AMC3 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
22	21	AMC4 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
23	22	AMC5 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
24	23	AMC6 IPMBL State	IPMBL Link state	0 1 0	4 5 6 7 8 9 0 1 2 3
25	24	Health Error	Platform Alert	0 2 3 4 5 6 7 8 9 0 1 2 3	---
26	25	AMC1 Sensor Err	Management Subsystem Health	0 2 3 4 5 6 7 8 9 0 1 2 3	---
27	26	AMC2 Sensor Err	Management Subsystem Health	0 2 3 4 5 6 7 8 9 0 1 2 3	---
28	27	AMC3 Sensor Err	Management Subsystem Health	0 2 3 4 5 6 7 8 9 0 1 2 3	---
29	28	AMC4 Sensor Err	Management Subsystem Health	0 2 3 4 5 6 7 8 9 0 1 2 3	---
30	29	AMC5 Sensor Err	Management Subsystem Health	0 2 3 4 5 6 7 8 9 0 1 2 3	---

Analog Sensor details
 Sensor ID: Temp Air Inlet
 Actual Value: 28.0 degrees C
 Value: 28.0 degrees C

E-Keying Results

The screenshot shows the 'Module Point To Point Connections' window in uTCA Manager. It displays the connection status for Local FRU Device 'MCH1 Fabric A' across various Local Link ports (0-9) and Remote Link ports.

Local Link	Local Link Description	Remote Link	Status
Local Link0	AMC2 Ethernet 1000Base-X SERDES Local CC = 0x0 Remote CC = 0x0	AMC 1 AMC Slot 1 / P0	Connected
Local Link1	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link AMC Slot 2 / P0	Not available
Local Link2	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link AMC Slot 3 / P0	Not available
Local Link3	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	AMC 4 AMC Slot 4 / P0	No FRU in remote slot
Local Link4	AMC2 Ethernet 1000Base-X SERDES Local CC = 0x0 Remote CC = 0x0	AMC 1 AMC Slot 1 / P1	Connected
Local Link5	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link AMC Slot 3 / P1	Not available
Local Link6	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link no carrier	Not available
Local Link7	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link no carrier	Not available
Local Link8	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link no carrier	Not available
Local Link9	AMC2 Ethernet 1000Base-X SERDES Local CC not available Remote CC not available	Remote Link no carrier	Not available

Technical Information

Standards

PICMG MTCA.0: MicroTCA specification R1.0
 PICMG AMC.0: Advanced Mezzanine Card specification R1.0/R2.0
 PICMG AMC.2: Gigabit Ethernet R1.0
 PICMG HPM.1: Firmware upgrade R1.0
 IPMI Intelligent Platform Management
 Interface Specification V1.5/V2.0

Documentation

Installation and configuration manual

Minimum PC Requirements

RAM: 512 MByte of memory or more
 Screen resolution: 1280x1024 or higher
 Interface to remote system: Ethernet TCP/IP/RMCP
 Software Platform: Java Runtime Environment (JRE 1.6.x)

Ordering Information

Article

Description

0MVUI

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