

VSC6817SDK

IStaX™ Linux Application Software Package for Managed Ethernet Switches

The IStaX (VSC6817SDK) Linux Application Software Package is a turnkey Industrial Ethernet switch solution designed to support Microsemi's managed Ethernet switch devices. The software uses the latest Linux operating system for optimal performance and cost effective implementation.

Management is performed using a Web GUI, Command Line Interface (CLI), Simple Network Management Protocol (SNMP), or Java Script Object Notation Remote Procedure Call (JSON-RPC), running on the internal MIPS24Kec CPU.

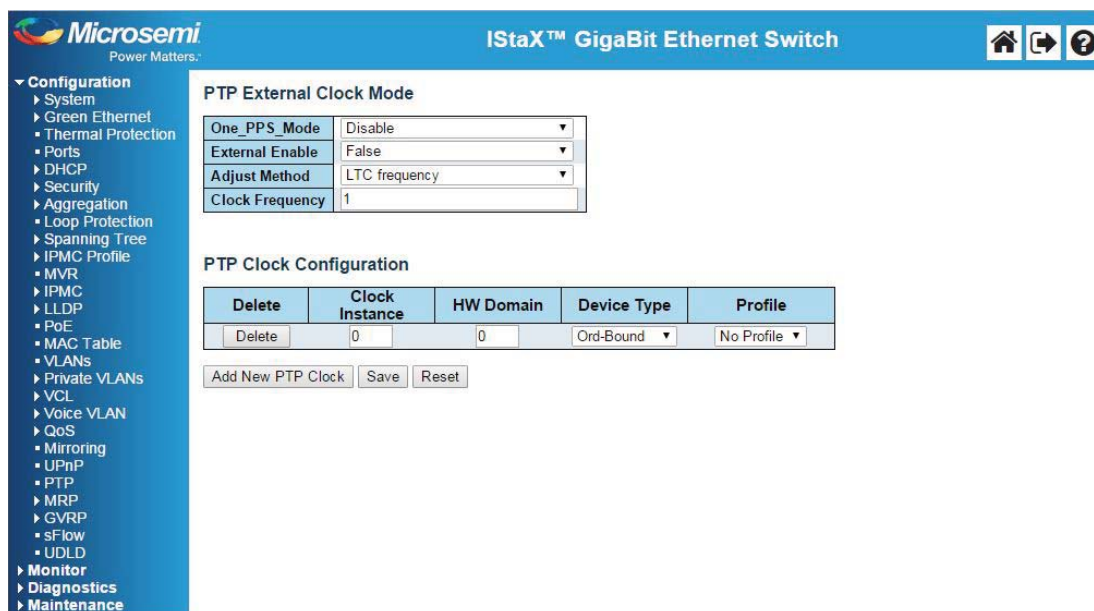
The VSC6817SDK is highly integrated with advanced L2 switch features such as QCLs and ACLs, and includes support for synchronization functions such as Synchronous Ethernet, IEEE 1588, and third-party servos, and protection functions including linear and ring protection.

Highlights

- Advanced L2 switching and L3 forwarding including VLANs, GVRP, IGMP, flow mirroring, and DHCP option 82
- SyncE and IEEE 1588 solution with PTP protocol, and hardware-accurate time stamping. For high accuracy applications, a Microsemi DPLL and separately-licensed servo algorithm are required.
- G.8031 link protection and G.8032 ring protection

Applications

- Industrial automation
- Smart grid
- Intelligent transportation systems



Microsemi
Power Matters.™

IStaX™ GigaBit Ethernet Switch

Configuration

- System
- Green Ethernet
- Thermal Protection
- Ports
- DHCP
- Security
- Aggregation
- Loop Protection
- Spanning Tree
- IPMC Profile
- MVR
- IPMC
- LLDP
- PoE
- MAC Table
- VLANs
- Private VLANs
- VCL
- Voice VLAN
- QoS
- Mirroring
- UPnP
- PTP
- MRP
- GVRP
- sFlow
- UDLD
- Monitor
- Diagnostics
- Maintenance

PTP External Clock Mode

One_PPS_Mode	Disable
External Enable	False
Adjust Method	LTC frequency
Clock Frequency	1

PTP Clock Configuration

Delete	Clock Instance	HW Domain	Device Type	Profile
Delete	0	0	Ord-Bound	No Profile

Add New PTP Clock Save Reset



Microsemi Corporate Headquarters
 One Enterprise, Aliso Viejo, CA 92656 USA
 Within the USA: +1 (800) 713-4113
 Outside the USA: +1 (949) 380-6100
 Fax: +1 (949) 215-4996
 Email: sales.support@microsemi.com
 www.microsemi.com

©2016 Microsemi Corporation. All rights reserved.
 Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for aerospace & defense, communications, data center and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; enterprise storage and communication solutions, security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, California and has approximately 4,800 employees globally. Learn more at www.microsemi.com.

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to Microsemi, and Microsemi reserves the right to make any changes to the information in this document or to any products and services at any time without notice.