

# 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.

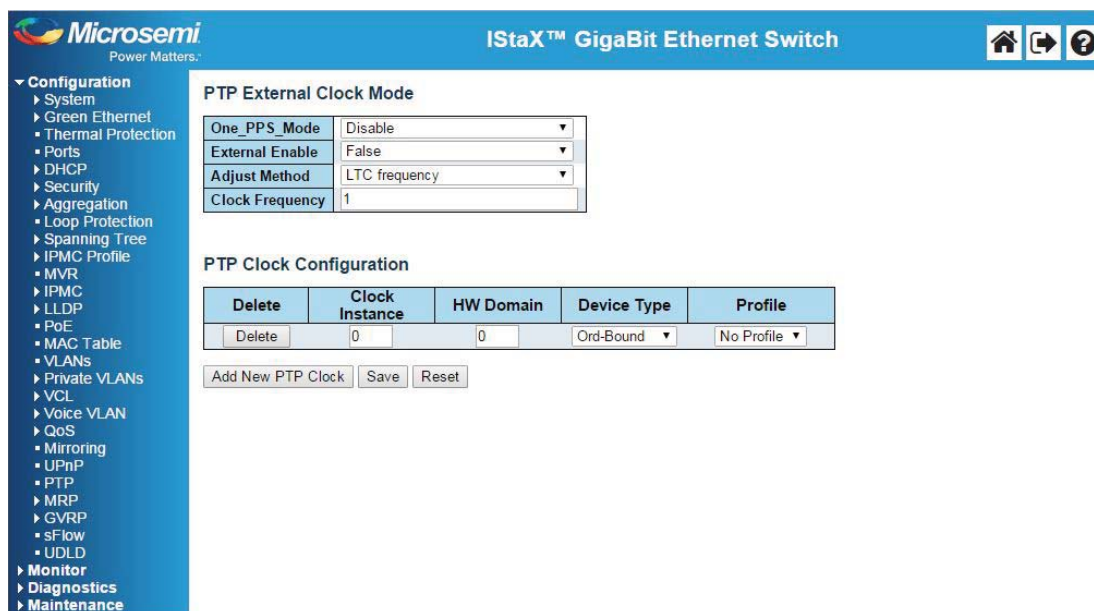
The VSC6817SDK is highly integrated with advanced L2 switch features such as QCLs and ACLs, and includes support for synchronization functions such as Synchronous Ethernet, IEEE 1588, and third-party servos, and protection functions including linear and ring protection.

### 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



The screenshot shows the configuration interface for the IStaX™ GigaBit Ethernet Switch. The left sidebar contains a navigation menu with categories like Configuration, Monitor, Diagnostics, and Maintenance. The main content area is titled "PTP External Clock Mode" and includes a table for configuration parameters:

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

Below this is the "PTP Clock Configuration" section, which features a table with columns for Delete, Clock Instance, HW Domain, Device Type, and Profile. The table contains one entry with Clock Instance 0, HW Domain 0, Device Type Ord-Bound, and Profile No Profile. Buttons for "Add New PTP Clock", "Save", and "Reset" are located below the table.



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