

CLI Reference Card for
IXM5414E switch module

*CLI Reference Card for the
Intel® Blade Server Ethernet
Switch Module IXM5414E*

Order #: C66111-003; Reference Card

C66111-003



Special Characters

Certain special key combinations speed up use of the CLI. Some of those more frequently used are listed in this section. Also, help is available for the CLI by typing **HELP**:

Ctrl-A go to beginning of line

Ctrl-E go to end of line

Ctrl-D delete current character

Ctrl-H display command history or retrieve a command.

Ctrl-W delete previous word

Ctrl-Z return to root command prompt

!! most recent command

!-n. nth most recent command

!n. execute the nth command in history buffer

? list choices

Special Command Usages

The commands in this document use the following typographical conventions:

<> command parameters are listed within angle brackets. These choices are necessary and must follow the specified order.

[] Brackets contain non-essential choices used to enhance the system.

IP Format: nnn.nnn.nnn.nnn

MAC Format: nn-nn-nn-nn-nn-nn

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It is also imperative to remember that, when listing ports in commands, that these ports are separated by commas WITHOUT spaces.

Command Line Completion

You do not need to type the entire command to execute a command. The system will allow you to type the command to the point that the command is uniquely recognizable and then press <TAB> or <SPACE BAR> to complete the command.

System Commands

ARP Cache

- show arp switch

Forwarding DB

- config forwardingdb agetime <10 - 1000000>
- show forwarding db agetime
- show forwardingdb learned
- show forwardingdb table

Inventory

- show inventory

Logs

- show eventlog
- show msglog

Port

System and Configuration

- config port admimode <port/ listofports/all> <enable/disable>

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- config port autoneg <port/ listofports/all> <enable/disable>
- config port flowcontrol <port/ listofports/all> <enable/disable>
- config port lacpmode <port/ listofports/all> <enable/disable>
- config port linktrap <port/ listofports/all> <enable/disable>
- config port physicalmode <port/ listofports/all> <100f/100h/ 10f/10h>
- show port <port/listofports/ all>

Mirroring

- config mirroring create <port> <port>
- config mirroring delete
- config mirroring mode <enable/disable>
- show mirroring

SNMP

Community Commands

- config snmpcommunity access-mode <readonly/readwrite> <name>
- config snmpcommunity create <name>
- config snmpcommunity delete <name>
- config snmpcommunity ipaddr <ipaddr> <name>
- config snmpcommunity ipmask <ipmask> <name>

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- `config snmpcommunity mode <enable/disable> <name>`
- `show snmpcommunity`

Trap Commands

- `config snmptrap create <name> <ipaddr>`
- `config snmptrap delete <name> <ipaddr>`
- `config snmptrap ipaddr <ipaddrold> <name> <ipaddrnew>`
- `config snmptrap mode <enable/disable> <name> <ipaddr>`
- `show snmptrap`

System Configuration

Login

- `config login session close <sessionID/all>`
- `show login session`

Network Connectivity

- `config network javamode <enable/disable>`
- `config network webmode <enable/disable>`
- `config network parms <ipAddr> <netmask> [gateway]`
- `config network protocol <none|bootp|dhcp>`
- `show network`

System Description

- `config prompt <system prompt>`
- `config syscontact <contact>`
- `config syslocation <location>`
- `config sysname <name>`
- `show stats port detailed`
- `show stats port summary`

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- `show stats switch detailed`
- `show stats switch summary`
- `show sysinfo`

Telnet

- `config telnet maxsessions <0-5> <ipaddr>`
- `config telnet mode <enable/disable>`
- `config telnet timeout <0-160>`
- `show telnet`

User Accounts

- `config users add <name>`
- `config users delete <name>`
- `config users passwd <user>`
- `config users snmpv3 accessmode <user> <readonly/readwrite>`
- `config users snmpv3 authentication <user> <none/md5/sha>`
- `config users snmpv3 encryption <user> <none/des [key]>`
- `show users info`

System Utilities

System Utilities Commands

- `clear config`
- `clear igmpsnopping`
- `clear lag`
- `clear pass`
- `clear stats port <port/listof-ports/all>`
- `clear stats switch`
- `clear transfer`
- `clear traplog`
- `clear vlan`
- `logout`
- `ping`

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- `reset system`
- `save config`
- `show history`

Transfer Upload Commands

- `transfer upload datatype <config/errorlog/msglog/traplog>`
- `transfer upload filename <name>`
- `transfer upload path`
- `transfer upload serverip <ipaddr>`
- `transfer upload start`

Transfer Download Commands

- `transfer download datatype <config/code/8051-mcu-code/sshkey-rsa1/sshkey-rsa2/sshkey-dsa/sslpem-root/sslpem-server/sslpem-dhweak/sslpem-dhstrong>`
- `transfer download filename <name>`
- `transfer download path <path>`
- `transfer download serverip <ipaddr>`
- `transfer download start`

Trap Manager

- `config trapflags authentication <enable/disable>`
- `config trapflags linkmode <enable/disable>`
- `config trapflags multiusers <enable/disable>`
- `config trapflags stp mode <enable/disable>`
- `show trapflags`
- `show traplog`

Switching Configuration Commands

GARP Commands

- config garp gmrp adminmode <enable/disable>
- config garp gmrp interfacemode <port/listofports/all> <enable/disable>
- config garp gvrp adminmode <enable/disable>
- config garp gvrp interfacemode <port/listofports/all> <enable/disable>
- config garp jointimer <port/listofports/all> <10-100>
- config garp leavealltimer <port/listofports/all> <200-6000>
- config garp leavetimer <port/listofports/all> <20-600>
- show garp info
- show garp interface <port/listofports/all>

IGMP Snooping Commands

- config igmpsnooping adminmode <enable/disable>
- config igmpsnooping groupmembershipinterval <2-3600>
- config igmpsnooping interfacemode <port/listofports/all> <enable/disable>
- config igmpsnooping maxresponse <1-3599>
- config igmpsnooping mcrtexpiretime <0-3600>
- show igmpsnooping

LAG Commands

- config lag addport <logical port> <port>
- config lag adminmode <logical port/listofports/all> <enable/disable>
- config lag create <name>
- config lag deletelag <logical port/listofports/all>
- config lag deleteport <logical port> <port/listofports/all>
- config lag linktrap <logical port/listofports/all> <enable/disable>
- config lag name <logical port> <name>
- config lag stpmode <enable/disable> <logical port/listofports/all> <off/802.1D/fast>
- show lag <logical port/listofports/all>

MAC Filter Commands

- config macfilter addest <mac-addr> <vlan> <port/listofports/all>
- config macfilter create <mac-addr> <vlan>
- config macfilter deldest <mac-addr> <vlan> <port/listofports/all>
- config macfilter remove <mac-addr> <vlan>
- show macfilter <all/mac-addr<all/vlan>>

MFDB Commands

- show mfdb gmrp
- show mfdb igmpsnooping

- show mfdb staticfiltering
- show mfdb stats
- show mfdb table [macaddr/all]

Spanning Tree Commands

Spanning Tree Bridge Commands

- config spanningtree bridge forwarddelay <4-30>
- config spanningtree bridge hello-time <1-10>
- config spanningtree bridge max-age <6-40>
- config spanningtree bridge priority <0-61440>
- show spanningtree bridge

Spanning Tree CST Commands

- config spanningtree cst port edgeport <port> <true/false>
- config spanningtree cst port pathcost <port> <1-20000000/auto>
- config spanningtree cst port priority <port> <0-240>
- show spanningtree cst detailed
- show spanningtree cst port detailed <port>
- show spanningtree cst port summary <port/listofports/all>

Spanning Tree Port Commands

- config spanningtree port migrationcheck <port/listofports/all> <enable/disable>
- config spanningtree port mode <port/listofports/all> <enable/disable>
- show spanningtree port <port>

Spanning Tree Summary Commands

- `config spanningtree adminmode <enable/disable>`
- `config spanningtree configuration name <name>`
- `config spanningtree configuration revision <0-65535>`
- `config spanningtree forceversion <802.1D/802.1w>`
- `show spanningtree summary`

VLAN Commands

- `config vlan bcaststorm <1-4094> <enable/disable> [packets per second]`
- `config vlan create <2-4094>`
- `config vlan delete <2-4094>`
- `config vlan makestatic <2-4094>`
- `config vlan mcaststorm <1-4094> <enable/disable> [packets per second]`
- `config vlan name <name> <2-4094>`
- `config vlan participation <exclude/include/auto> <1-4094> <port/listofports/all>`
- `config vlan port acceptframe <all/vlanonly> <port/listofports/all>`
- `config vlan port priority <0-7> <port/listofports/all>`
- `config vlan port tagging <enable/disable> <1-4094> <port/listofports/all>`
- `show vlan detailed`
- `show vlan port <port/listofports/all>`
- `show vlan summary`