

# How to configure Port Control and Port Description for DGS-3120 Series via SNMP

## 1): OID for Port control

The OID is under:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-mgmt(11).dlink-xxxSeries(X).xxxModel(Y).swL2MgmtMIB(2)

**dlink-xxxSeries(X):** For DGS-3120 series, the (x)=117

**xxxModel(Y):**

DGS-3120-24TC Y=1 OID is 1.3.6.1.4.1.171.11.117.1.1  
DGS-3120-24PC Y=2 OID is 1.3.6.1.4.1.171.11.117.1.2  
DGS-3120-24SC Y=3 OID is 1.3.6.1.4.1.171.11.117.1.3  
DGS-3120-48TC Y=4 OID is 1.3.6.1.4.1.171.11.117.1.4  
DGS-3120-48PC Y=5 OID is 1.3.6.1.4.1.171.11.117.1.5  
DGS-3120-24SC-DC Y=3 OID is 1.3.6.1.4.1.171.11.117.1.6

Y=DGS-3120-xxxModel W= port number

config ports <portlist> medium\_type >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.2

Read-only

state >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.4.W.1 Read-write

Speed >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.5.W.1 Read-write

flow control >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.6.W.1 Read-write

learning >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.7.W.1 Read-write

MAC Notification >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.8.W.1 Read-write

mdix >>OID: 1.3.6.1.4.1.171.11.117.1.Y.2.3.2.1.10.W.1 Read-write

## 2): OID for port description

>>> OID: 1.3.6.1.2.1.31.1.1.1.18.W

**For example:**

snmpset -v 2c -c private 10.90.90.90 1.3.6.1.2.1.31.1.1.1.18.11 s Test

IF-MIB::ifAlias.11 = STRING: Test

(config ports 11 description Test)

```
DGS-3120-48TC:admin#show ports 1:11 description
Command: show ports 1:11 description

Port      State/MDIX      Settings      Connection      Address
-----  -
1:11      Enabled Auto      Auto/Disabled  Link Down      Enabled
          Auto
          Description: Test
```

## Below are snapshots and OIDs using DGS-3120-24TC as an example

1: Object name swL2PortInfoMediumType

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.2

```
Base syntax      Integer
Composed syntax  INTEGER
Access           Read-Only
Status           Current
Value list       1 : copper(1)
                 2 : fiber(2)

Parent node      swL2PortInfoEntry
First child      None
Description      Indicates the medium type of the port number.
```

2: Object name swL2PortCtrlAdminState

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.4

```
Base syntax      Integer
Composed syntax  INTEGER
Access           Read-Write
Status           Current
Value list       1 : other(1)
                 2 : disabled(2)
                 3 : enabled(3)

Parent node      swL2PortCtrlEntry
First child      None
Description      This object decides if the port is enabled or disabled.
```

3: Object name swL2PortCtrlNwayState

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.5

```
Base syntax      Integer
Composed syntax  INTEGER
Access           Read-Write
Status           Current
Value list       1 : other(1)
                 2 : nway-enabled(2)
                 3 : nway-disabled-10Mbps-Half(3)
                 4 : nway-disabled-10Mbps-Full(4)
                 5 : nway-disabled-100Mbps-Half(5)
                 6 : nway-disabled-100Mbps-Full(6)
                 7 : nway-disabled-1Gigabps-Half(7)
                 8 : nway-disabled-1Gigabps-Full(8)
                 9 : nway-disabled-1Gigabps-Full-master(9)
                 10 : nway-disabled-1Gigabps-Full-slave(10)

Parent node      swL2PortCtrlEntry
First child      None
Description      Chose the port speed, duplex mode, and N-Way function mode.
```

**4 :** Object name swL2PortCtrlFlowCtrlState

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.6

Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	The flow control mechanism is different between full duplex mode and half duplex mode. For half duplex mode, the jamming signal is asserted. For full duplex mode, the IEEE 802.3x flow control function sends PAUSE frames and receives PAUSE frames.

**5 :** Object name swL2PortCtrlLearningState

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.7

Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	This object decides if the port is locked or not.

**6 :** Object name swL2PortCtrlMACNotifyState

Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.8

Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1) 2 : disabled(2) 3 : enabled(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	This object sets each port's MAC notification state.

7: Object name swL2PortCtrlMDIXState  
Object OID 1.3.6.1.4.1.171.11.117.1.1.2.3.2.1.10

Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : auto(1) 2 : normal(2) 3 : cross(3)
Parent node	swL2PortCtrlEntry
First child	None
Description	This object configures the MDIX setting of the port.