

.xPON. BDCOM. SNMP

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1. EPON:

P3608B Software, Version 10.1.0F Build 81296

1.1 Status ONU

llidOnlineInfoStatus	LLID & ONU binding status	1.3.6.1.4.1.3320.101.11.4.1.5	INTEGER	read only	LLID & ONU binding status	authenticated(0) registered(1) deregistered(2) discovered(3) lost(4) auto_configured(5) unknown(255)
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CLI

```
Switch#show epon onu-information
```

```
Interface EPON0/1 has registered 18 ONUs:
```

IntfName	VendorID	ModelID	MAC Address	Description	BindType	Status
EPON0/1:1 unknow	----	0x00000000	8479.7374.d794	N/A	static	deregistered
EPON0/1:2 unknow	----	0x00000000	8479.7374.d795	N/A	static	deregistered
EPON0/1:3 unknow	----	0x00000000	8479.7374.d796	N/A	static	deregistered
EPON0/1:4 unknow	----	0x00000000	8479.7374.0d79	N/A	static	deregistered
EPON0/1:5 unknow	----	0x00000000	8479.7374.d797	N/A	static	deregistered
EPON0/1:6 unknow	----	0x00000000	006d.6195.caa8	N/A	static	deregistered
EPON0/1:7 unknow	----	0x00000000	98c7.a406.d6cc	N/A	static	deregistered
EPON0/1:8 unknow	----	0x00000000	e0e8.e6bf.75bf	N/A	static	deregistered
EPON0/1:9 unknow	----	0x00000000	0008.3601.bd7a	N/A	static	deregistered
EPON0/1:10 unknow	----	0x00000000	98c7.a406.d6c8	N/A	static	deregistered
EPON0/1:11 unknow	----	0x00000000	e067.b361.f5f0	N/A	static	deregistered
EPON0/1:12 unknow	----	0x00000000	e067.b3de.a9a6	N/A	static	deregistered
EPON0/1:13 unknow	----	0x00000000	9845.623f.77ea	N/A	static	deregistered
EPON0/1:14 unknow	----	0x00000000	f8f0.8218.dbcc	N/A	static	deregistered
EPON0/1:15 unknow	----	0x00000000	f8f0.8210.33c3	N/A	static	deregistered
EPON0/1:16 unknow	----	0x00000000	e067.b31a.2b3c	N/A	static	deregistered
EPON0/1:17 /A	SNR	SE1G	f8f0.8215.7844	N/A	static	auto-configured N
EPON0/1:18 unknow	----	0x00000000	e067.b300.0001	N/A	static	deregistered

```
Switch#show int epon 0/1
```

```
EPON0/1 is down, line protocol is down
```

```
protocolstatus upTimes 10, downTimes 10, last transition 1970-1-4 1:58:34
```

```
Ifindex is 76, unique port number is 12
```

SNMP

```
snmpwalk -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.11.4.1.5
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.1 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.2 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.3 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.4 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.5 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.6 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.7 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.8 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.9 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.10 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.11 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.12 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.13 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.14 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.15 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.16 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.17 = INTEGER: 5
SNMPv2-SMI::enterprises.3320.101.11.4.1.5.76.18 = INTEGER: 2

3320.101.11.4.1.5.76.17 - 76 = ifindex GPON, 17 = ONU
```

1.2 RX OLT pon port

ponOpticsRxPower	Rx power of OLT optical module	1.3.6.1.4.1.3320.101.108.1.3	INTEGER	read only	The rx power of optical module The unit is 01DBm
------------------	--------------------------------	------------------------------	---------	-----------	--

CLI

```
Switch#show epon optical-transceiver-diagnosis interface epON 0/1:17
  interface      RxPower(dBm)
  -----
epon0/1:17      -34.0

Switch#show int epON 0/1:17
EPON0/1:17 is up, line protocol is up
  protocolstatus upTimes 4, downTimes 3, last transition 1970-1-3 23:9:52
  Ifindex is 113, unique port number is 12 ( Ifindex ONU = 113)
  Hardware is Giga-LLID, address is 9845.6223.009a (bia 9845.6223.009a)
  MTU 2025 bytes, BW 1000000 kbit, DLY 2000 usec
  Encapsulation ARPA
  Flow-Control Off
```

SNMP

```
snmpwalk -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.108.1.3.113 - 113 = ifindex ONU
SNMPv2-SMI::enterprises.3320.101.108.1.3.113 = INTEGER: -340 ( 0.1 dBm)
```

1.3 RX TX ONU

opModuleRxPower	ONU PON port optical Rx Power	1.3.6.1.4.1.3320.101.10.5.1.5	INTEGER	read only	ONU PON port optical receive power Unit is 01dB
opModuleTxPower	ONU PON port optical TxPower	1.3.6.1.4.1.3320.101.10.5.1.6	INTEGER	read only	ONU PON port optical send power Unit is 01dB

CLI

```
Switch#show epon onu-ctc-optical-transceiver-diagnosis interface epON 0/1
IntfName      Temp(degree) Volt(V) Bias(mA) TxPow(dBm) RxPow(dBm)
-----
epon0/1:1     --          --      --      --      --
epon0/1:2     --          --      --      --      --
epon0/1:3     --          --      --      --      --
epon0/1:4     --          --      --      --      --
epon0/1:5     --          --      --      --      --
epon0/1:6     --          --      --      --      --
epon0/1:7     --          --      --      --      --
epon0/1:8     --          --      --      --      --
epon0/1:9     --          --      --      --      --
epon0/1:10    --          --      --      --      --
epon0/1:11    --          --      --      --      --
epon0/1:12    --          --      --      --      --
epon0/1:13    --          --      --      --      --
epon0/1:14    --          --      --      --      --
epon0/1:15    --          --      --      --      --
epon0/1:16    --          --      --      --      --
epon0/1:17    35.6       3.3      15.1    1.7     -22.7
epon0/1:18    --          --      --      --      --
```

```
Switch#show int epON 0/1:17
EPON0/1:17 is up, line protocol is up
  protocolstatus upTimes 4, downTimes 3, last transition 1970-1-3 23:9:52
  Ifindex is 113, unique port number is 12 ( Ifindex ONU = 113)
  Hardware is Giga-LLID, address is 9845.6223.009a (bia 9845.6223.009a)
  MTU 2025 bytes, BW 1000000 kbit, DLY 2000 usec
  Encapsulation ARPA
  Flow-Control Off
```

SNMP

```
RX:
snmpwalk -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.10.5.1.5.113 - 113 = ifindex ONU
SNMPv2-SMI::enterprises.3320.101.10.5.1.5.113 = INTEGER: -226 ( 0.1 dBm)
TX:
snmpwalk -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.10.5.1.6.113
SNMPv2-SMI::enterprises.3320.101.10.5.1.6.113 = INTEGER: 17 ( 0.1 dBm)
```

1.4 Mac address table

OID dot1qTpFdbPort(1.3.6.1.2.1.17.1.2.2.1.2), , .

CLI

```
Switch#show mac address-table
      Mac Address Table (Total 59)
```

Vlan	Mac Address	Type	Ports
-----	-----	----	-----
170	f880.8276.1108	DYNAMIC	g0/5
170	f023.b95f.835b	DYNAMIC	g0/5
170	5416.5166.c0eb	DYNAMIC	g0/5
170	0050.56b1.dbb0	DYNAMIC	g0/5
170	e069.95ba.ad17	DYNAMIC	g0/5
170	0a12.45e2.9d53	DYNAMIC	g0/5
170	f023.b95b.fd55	DYNAMIC	g0/5
170	482c.d083.548f	DYNAMIC	g0/5
170	50eb.713e.4121	DYNAMIC	g0/5
170	f023.b960.fe4b	DYNAMIC	g0/5
170	d037.4553.8814	DYNAMIC	g0/5
170	f023.b959.2130	DYNAMIC	g0/5
170	f8f0.8265.958d	DYNAMIC	g0/5
4033	0014.a882.0302	DYNAMIC	g0/5
182	0a12.2c91.8cf2	DYNAMIC	g0/5
182	0014.a882.0302	DYNAMIC	g0/5
170	0050.c294.6040	DYNAMIC	g0/5
100	0014.a882.0302	DYNAMIC	g0/5
170	f8f0.8265.af3c	DYNAMIC	g0/5
170	0014.a882.0302	DYNAMIC	g0/5
1199	0014.a882.0302	DYNAMIC	g0/5
170	0013.c607.4587	DYNAMIC	g0/5
170	f023.b946.a7fe	DYNAMIC	g0/5
170	c434.6bbf.6644	DYNAMIC	g0/5
170	0050.c25d.3033	DYNAMIC	g0/5
170	2441.8c8f.9878	DYNAMIC	g0/5
170	0050.56b1.95aa	DYNAMIC	g0/5
170	f023.b95c.4c33	DYNAMIC	g0/5
170	0050.56b2.4b8b	DYNAMIC	g0/5
170	5254.0027.94ff	DYNAMIC	g0/5
170	0050.c228.1000	DYNAMIC	g0/5
170	f8f0.8265.86c9	DYNAMIC	g0/5
170	d8c0.a693.2239	DYNAMIC	g0/5
170	0e1a.bfd2.9cdc	DYNAMIC	g0/5
182	d476.a000.b6cc	DYNAMIC	g0/5
170	000c.2997.d08c	DYNAMIC	g0/5
170	0008.a20e.e8d1	DYNAMIC	g0/5
170	f023.b95d.eed3	DYNAMIC	g0/5
4033	1cb7.2c91.8cf2	DYNAMIC	g0/5
170	f8f0.8265.85a6	DYNAMIC	g0/5
170	f8f0.8265.851d	DYNAMIC	g0/5
170	f8f0.8265.852d	DYNAMIC	g0/5
182	60f1.8ada.3335	DYNAMIC	g0/5
170	a042.3f2f.1cdb	DYNAMIC	g0/5
170	0e1a.2c91.8cf2	DYNAMIC	g0/5
170	f023.b95f.2b6a	DYNAMIC	g0/5
4033	8840.3362.4a9e	DYNAMIC	g0/5
170	f8f0.8265.c0cc	DYNAMIC	g0/5
170	64d1.5440.b91b	DYNAMIC	g0/5
170	d476.a000.b6cc	DYNAMIC	g0/5
170	0011.0403.0694	DYNAMIC	g0/5
170	bc32.5fab.905d	DYNAMIC	g0/5
170	f023.b954.a880	DYNAMIC	g0/5
170	f023.b95e.57e7	DYNAMIC	g0/5
170	f8f0.8292.3ee5	DYNAMIC	g0/5
170	f8f0.8265.c21a	DYNAMIC	g0/5
170	0897.988f.db54	DYNAMIC	g0/5
182	0050.b60f.36d6	DYNAMIC	epon0/1:17
1	f8f0.8215.7845	DYNAMIC	epon0/1:17

SNMP

```
snmpwalk -Cc -v2c -c test 172.31.182.222 1.3.6.1.2.1.17.7.1.2.2.1.2
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.128.130.118.17.8 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.95.131.91 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.84.22.81.102.192.235 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.86.177.219.176 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.224.105.149.186.173.23 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.10.18.69.226.157.83 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.91.253.85 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.72.44.208.131.84.143 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.80.235.113.62.65.33 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.96.254.75 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.89.33.48 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.149.141 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.4033.0.20.168.130.3.2 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.182.10.18.44.145.140.242 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.182.0.20.168.130.3.2 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.194.148.96.64 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.100.0.20.168.130.3.2 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.175.60 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.20.168.130.3.2 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.1199.0.20.168.130.3.2 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.19.198.7.69.135 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.70.167.254 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.196.52.107.191.102.68 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.194.93.48.51 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.36.65.140.143.152.120 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.86.177.149.170 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.92.76.51 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.86.178.75.139 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.82.84.0.39.148.255 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.80.194.40.16.0 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.134.201 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.216.192.166.147.34.57 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.14.26.191.210.156.220 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.182.212.118.160.0.182.204 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.12.41.151.208.140 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.8.162.14.232.209 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.93.238.211 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.4033.28.183.44.145.140.242 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.133.166 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.133.29 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.133.45 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.182.96.241.138.218.51.53 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.160.66.63.47.28.219 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.14.26.44.145.140.242 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.95.43.106 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.4033.136.64.51.98.74.158 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.192.204 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.100.209.84.64.185.27 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.212.118.160.0.182.204 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.0.17.4.3.6.148 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.188.50.95.171.144.93 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.84.168.128 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.240.35.185.94.87.231 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.146.62.229 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.248.240.130.101.194.26 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.170.8.151.152.143.219.84 = INTEGER: 69
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.182.0.80.182.15.54.214 = INTEGER: 113
SNMPv2-SMI::mib-2.17.7.1.2.2.1.2.1.248.240.130.21.120.69 = INTEGER: 113
```

OID = vlan, MAC DEC, = ifindex .

1.5 Mac address from ONU

llidMacSearchIfIndex	LLID interface index	1.3.6.1.4.1.3320.101.9.2.1	INTEGER	read write	LLID interface id, unique in system Set this OID will trigger the search action Get will return the ifindex corresponding to current llidMacSearchResultTable
llidMacSearchResultIndex	Entry index for search result	1.3.6.1.4.1.3320.101.9.2.3.1.1	INTEGER	read only	Entry index for mac address search result
llidMacSearchResultVlan	Search Result Vlan	1.3.6.1.4.1.3320.101.9.2.3.1.2	INTEGER	read only	Vlan of the entry
llidMacSearchResultMacAddress	Search Result Mac Address	1.3.6.1.4.1.3320.101.9.2.3.1.3	MacAddress	read only	Mac address of the entry

CLI

```
Switch#show mac address-table int ep0N 0/1:17
      Mac Address Table (Total 2)
-----
Vlan    Mac Address      Type    Ports
----    -
182     0050.b60f.36d6   DYNAMIC epon0/1:17
1       f8f0.8215.7845   DYNAMIC epon0/1:17
```

SNMP

```
snmpset -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.9.2.1.0 i 113 - 113 = ifindex ONU
SNMPv2-SMI::enterprises.3320.101.9.2.1.0 = INTEGER: 113

snmpwalk -v2c -c test 172.31.182.222 1.3.6.1.4.1.3320.101.9.2.3
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.1.2 = INTEGER: 2
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.2.1 = INTEGER: 182
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.2.2 = INTEGER: 1
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.3.1 = Hex-STRING: 00 50 B6 0F 36 D6
SNMPv2-SMI::enterprises.3320.101.9.2.3.1.3.2 = Hex-STRING: F8 F0 82 15 78 45
```

2. GPON:

GP3600-08B Software, Version 10.3.0D Build 99242

2.1 Status ONU

gponOnuStatusOnuStatus	1.3.6.1.4.1.3320.10.3.3.1.4	INTEGER	read only	ONU Status 0 off to line, 1 inactive, 2 disable, 3 active	off to line(0), inactive(1), disable(2), active(3)
------------------------	-----------------------------	---------	-----------	---	--

CLI

```
Switch_config#show gpon onu-information
```

```
Interface GPON0/1 has bound 2 ONUs:
```

IntfName	VendorID	ModelID	SN	LOID	Status	Config	Status	Active
----------	----------	---------	----	------	--------	--------	--------	--------

```
Time
```

GPON0/1:1	HWTC	N/A	HWTC:E6BF75AF	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/1:2	PX20	N/A	PX20:19082100	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

```
Interface GPON0/4 has bound 3 ONUs:
```

IntfName	VendorID	ModelID	SN	LOID	Status	Config	Status	Active
----------	----------	---------	----	------	--------	--------	--------	--------

```
Time
```

GPON0/4:1	HWTC	N/A	HWTC:006BD2F1	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/4:2	HWTC	N/A	HWTC:8218DBCC	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/4:3	BDCM	N/A	BDCM:6B241F1E	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

```
Interface GPON0/8 has bound 7 ONUs:
```

IntfName	VendorID	ModelID	SN	LOID	Status	Config	Status	Active
----------	----------	---------	----	------	--------	--------	--------	--------

```
Time
```

GPON0/8:1	HWTC	N/A	HWTC:82129648	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/8:2	HWTC	N/A	HWTC:3601BD62	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/8:3	BDCM	N/A	BDCM:62F80BC3	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/8:4	DC19	N/A	DC19:B361F5E8	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/8:5	HWTC	ONT1GEF	HWTC:821033C3	N/A	active	success		2000-01-
-----------	------	---------	---------------	-----	--------	---------	--	----------

05 00:16:52								
-------------	--	--	--	--	--	--	--	--

GPON0/8:6	HWTC	N/A	HWTC:B31A2B3C	N/A	off-line	N/A		N
-----------	------	-----	---------------	-----	----------	-----	--	---

/A								
----	--	--	--	--	--	--	--	--

GPON0/8:7	BDCM	N/A	BDCM:625B9188	N/A	off-line	N/A		N/A
-----------	------	-----	---------------	-----	----------	-----	--	-----

```
Switch_config# show int gpON 0/8:5
```

```
GPON0/8:5 is up, line protocol is up
```

```
protocolstatus upTimes 1, downTimes 0, last transition 2000-1-5 0:16:52
```

```
Ifindex is 174, unique port number is 21
```

```
Hardware is GPON-ONUID, address is 9845.6230.cb2f (bia 9845.6230.cb2f)
```

```
MTU 4000 bytes, BW 2500000 kbit, DLY 2000 usec
```

```
Encapsulation ARPA
```

```
Flow-Control Off
```

```
5 minutes input rate 61478 bits/sec, 92 packets/sec
```

```
5 minutes output rate 4220178 bits/sec, 351 packets/sec
```

```
Received 25248 packets, 2461126 bytes
```

```
0 unreceived burst, 0 bip8 error
```

```
0 fec corrected, 0 fec uncorrectable
```

```
0 lcdg error, 0 rdi error
```

```
Received ploam 80 non-idle, 0 error
```

```
Received omci 575 frames, 0 error
```

```
Transmitted 91703 packets, 136733077 bytes
```

```
39 ber reported
```

```
virtual-port 1 UniCast:
```

```
Received 25248 packets, 2461126 bytes
```

```
Transmitted 91703 packets, 136733077 bytes
```


SNMP

```
snmpwalk -Cc -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.3.3.1.4
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.166 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.170 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.171 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.172 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.173 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.174 = INTEGER: 3
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.175 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.176 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.177 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.178 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.179 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.3.3.1.4.180 = INTEGER: 0
```

2.2 RX OLT pon port

gponOltPonPortOpticalRxPowerRxPower	Receiving optical power	1.3.6.1.4.1.3320.10.2.3.1.3	INTEGER	read only	The rx power of optical module The unit is 01dBm
-------------------------------------	-------------------------	-----------------------------	---------	-----------	--

CLI

```
Switch#show gpon optical-transceiver-diagnosis interface gpON 0/8
interface      Temperature(degree)  Voltage(V)  Current(mA)  TxPower(dBm)
-----
gpon0/8        35.0                3.4         13.3         3.6
interface      RxPower(dBm)
-----
gpon0/8:5      -12.1
```

SNMP

```
snmpwalk -Cc -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.2.3.1.3
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.166 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.170 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.171 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.172 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.173 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.174 = INTEGER: -121
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.175 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.176 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.177 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.178 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.179 = INTEGER: 0
SNMPv2-SMI::enterprises.3320.10.2.3.1.3.180 = INTEGER: 0
```

2.3 RX TX ONU

gponOnuOpticalPowerRxPower	Receiving optical power	1.3.6.1.4.1.3320.10.3.4.1.2	INTEGER	read only	unit:0,1dBm
gponOnuOpticalPowerTxPower	Output optical power	1.3.6.1.4.1.3320.10.3.4.1.3	INTEGER	read only	unit:0,1dBm

CLI

```
Switch#show gpon onu-optical-transceiver-diagnosis interface gpon 0/8
IntfName      Temp(degree) Volt(V) Bias(mA) RxPow(dBm) TxPow(dBm)
-----
gpon0/8:1     --          --      --      --      --
gpon0/8:2     --          --      --      --      --
gpon0/8:3     --          --      --      --      --
gpon0/8:4     --          --      --      --      --
gpon0/8:5     34.6       3.3     12.2    -11.5    1.6
gpon0/8:6     --          --      --      --      --
gpon0/8:7     --          --      --      --      --
```

SNMP

```
snmpwalk -Cc -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.3.4.1.2
SNMPv2-SMI::enterprises.3320.10.3.4.1.2.174 = INTEGER: -115

snmpwalk -Cc -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.3.4.1.3
SNMPv2-SMI::enterprises.3320.10.3.4.1.3.174 = INTEGER: 16
```

2.4 Mac address table

EPON, OID dot1qTpFdbPort(1.3.6.1.2.1.17.7.1.2.2.1.2).

2.5 Mac address from ONU

gponMacSearchResultIndex		1.3.6.1.4.1.3320.10.15.1.1	INTEGER	read only	Entry index for search result	
gponMacSearchResultIf	The port diID of the MAC address in the entry	1.3.6.1.4.1.3320.10.15.1.1.2	INTEGER	read only	Diid of mac entry	
gponMacSearchResultVp	The Virtual port of the MAC address in the entry	1.3.6.1.4.1.3320.10.15.1.1.3	INTEGER	read only	Virtual port of mac entry	
gponMacSearchResultVlan	The VLAN to which the MAC address in the entry belongs	1.3.6.1.4.1.3320.10.15.1.1.4	INTEGER	read only	Vlan of mac entry	
gponMacSearchResultMacAddress	The MAC address in the entry	1.3.6.1.4.1.3320.10.15.1.1.5	MacAddress	read only	Mac address of mac entry	
gponMacSearchType	Set query type, after which start the query process	1.3.6.1.4.1.3320.10.15.2	INTEGER	read write	MAC address search type Set this OID will trigger the search action	mac (1), mac to vid (2), if to index (3), vid(4)
gponMacSearchTime	Record the moment the query reaches the current result	1.3.6.1.4.1.3320.10.15.3	DateAndTime (OCTET STRING)	read only	The date time corresponding to current gponMacSearchResultTable	
gponMacSearchCondMac	Set queries for MAC addresses in the criteria	1.3.6.1.4.1.3320.10.15.4	MacAddress	read write	MAC address condition for search Get will return the MAC corresponding to current gponMacSearchResultTable, 00:00:00:00:00:00 for not used	
gponMacSearchCondVid	Set query criteria for VLAN values	1.3.6.1.4.1.3320.10.15.5	INTEGER	read write	Vlan id condition for search Get will return the vlan id corresponding to current gponMacSearchResultTable, 0 for not used	
gponMacSearchCondIfIndex	Set the port diID value in the query criteria	1.3.6.1.4.1.3320.10.15.6	INTEGER	read write	Ifindex condition for search Get will return the Ifindex corresponding to current gponMacSearchResultTable, 0 for not used	

CLI

```
Switch#show mac address-table int gpON 0/8:5
      Mac Address Table (Total 1)
```

```
-----
Vlan    Mac Address      Type    Ports
----    -
170     0050.b60f.36d6    DYNAMIC gpon0/8:5-1
```

```
Switch#show int gpON 0/8:5
GPON0/8:5 is up, line protocol is up
  protocolstatus upTimes 1, downTimes 0, last transition 2000-1-5 0:16:52
  Ifindex is 174, unique port number is 21
```

```
IFINDEX = 174
```

SNMP

```
snmpset -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.15.6.0 i 174
SNMPv2-SMI::enterprises.3320.10.15.6.0 = INTEGER: 174
```

```
snmpset -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.15.2.0 i 3
SNMPv2-SMI::enterprises.3320.10.15.2.0 = INTEGER: 3
```

```
snmpwalk -Cc -v2c -c test 172.31.182.217 1.3.6.1.4.1.3320.10.15.1
SNMPv2-SMI::enterprises.3320.10.15.1.1.1.1 = INTEGER: 1
SNMPv2-SMI::enterprises.3320.10.15.1.1.2.1 = INTEGER: 174
SNMPv2-SMI::enterprises.3320.10.15.1.1.3.1 = INTEGER: 1
SNMPv2-SMI::enterprises.3320.10.15.1.1.4.1 = INTEGER: 170
SNMPv2-SMI::enterprises.3320.10.15.1.1.5.1 = Hex-STRING: 00 50 B6 0F 36 D6
```