



SFP-25GSR-85

OPTICAL TRANSCEIVER MODULE

Scenario Application Test Report (Cisco)

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1. Test Purpose

By building test scenarios and simulating the customer's usage environment, we test whether the module's performance meets the customer's requirements.

2. Test Results Summary

Table 2: Test Results

Items	Test Data	Remarks
Multi-Version	Pass	/
Connectivity	Pass	/
Module Basic Information	Pass	/
Digital Diagnostic Monitoring	Pass	/

3. Test Environment

3.1 Test Equipment Used

Table 3-1: Test Equipment Used

Vendor	Device	Soft Version
Cisco Switch	C93180YC-EX	17.12.03
NVIDIA NICs	MCX512A-ACAT	16.35.4030
Dell Server	PowerEdge-R860	/

3.2 Test Sample

Table 3-2: Test Sample

Product ID	P/N	Serial Number
#67991	SFP-25GSR-85	A2240001167

4. Test Data

4.1 Test Scenario

Table 4-1: Test Scenario

Test Topology	
Test Premise	1. Confirm the brand, quantity and placement of the switches to be tested. 2. Prepare control cables, test software and optical fiber patch cords. Power on the switches in advance. 3. Locate the Console port on the switch, which is usually marked as "CON" on the switch, although some switches may display it as "IOIOI" or a computer monitor icon, etc. Use a control cable to connect the switch to the computer.  4. Before connecting the software, it is necessary to confirm the connection port of the control cable. Go to the computer device manager, click on the ports (COM and LPT) to view the ports. After confirming the ports, proceed with the next step.
Test Method	Click to open the SecureCRT Portable software and enter the quick connection interface. ① Protocol selection: Serial ② Port selection: The same as the port you viewed in the previous step ③ Baud rate selection: The same as the baud rate of the port on the target switch ④ Flow control: Do not check this option The remaining configurations can keep the default values.

Test Steps

- ① Insert the module into the corresponding rate port of the switch, and connect the TX-RX ends with an optical fiber jumper or an MTP self-loop device. Observe whether the module is connected. If not connected, please check the jumper connection or the switch port configuration (login to the switch is required).
- ② Enter the test interface, input the account and password, log in to the switch and enter privileged mode.
- ③ According to the switch command configuration table, input the corresponding test command and view the relevant information: port status (connectivity), connection rate, alarm status, module basic information, DDM information, etc. Determine whether it meets the requirements.

4.2 Test Result

Table 4-2: Test Result

Test Information

1. Read the switch model name and software version, and read the status of all ports on the switch

Switch#show version
Cisco IOS XE Software, Version 17.12.03
Cisco IOS Software [Dublin], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 17.12.3, RELEASE SOFTWARE (fc7)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2024 by Cisco Systems, Inc.
Compiled Wed 20-Mar-24 15:40 by mcpre

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ROM: IOS-XE ROMMON
BOOTLDR: System Bootstrap, Version 17.12.1r[FC3], RELEASE SOFTWARE (P)

Switch uptime is 1 week, 1 day, 3 hours, 20 minutes
Uptime for this control processor is 1 week, 1 day, 3 hours, 21 minutes
System returned to ROM by PowerOn
System image file is "flash:cat9k_iosxe.17.12.03.SPA.bin"
Last reload reason: PowerOn

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to
export@cisco.com.

Technology Package License Information:

Technology-package Current	Type	Technology-package Next reboot
network-essentials	Smart License	network-essentials
dna-essentials	Subscription Smart License	dna-essentials
AIR License Level: AIR DNA Advantage		
Next reload AIR license Level: AIR DNA Advantage		

Smart Licensing Status: Smart Licensing Using Policy

cisco C9300X-12Y (X86) processor with 1301994K/6147K bytes of memory.
Processor board ID FOC2632Y5JD
1 Virtual Ethernet interface
8 Ten Gigabit Ethernet interfaces
20 TwentyFive Gigabit Ethernet interfaces
2 Hundred Gigabit Ethernet interfaces
2048K bytes of non-volatile configuration memory.
16777216K bytes of physical memory.
1638400K bytes of Crash Files at crashinfo:.
11264000K bytes of Flash at flash:.

Base Ethernet MAC Address : f8:e9:4f:c4:7c:00
Motherboard Assembly Number : 73-19731-03
Motherboard Serial Number : FOC26288SCG
Model Revision Number : E0
Motherboard Revision Number : A0
Model Number : C9300X-12Y
System Serial Number : FOC2632Y5JD
CLEI Code Number : INMGR00CRA

Switch Ports Model	SW Version	SW Image	Mode
* 1 32 C9300X-12Y	17.12.03	CAT9K_IOSXE	BUNDLE

Switch#show interfaces status

Port	Name	Status	Vlan	Duplex	Speed	Type
Twe1/0/1		err-disabled	1	full	auto	unknown
Twe1/0/2		connected	1	full	25G	SFP-25GBase-SR
Twe1/0/3		connected	1	full	25G	SFP-25GBase-SR
Twe1/0/4		err-disabled	1	full	25G	unknown
Twe1/0/5		err-disabled	1	full	25G	unknown
Twe1/0/6		notconnect	1	full	auto	unknown
Twe1/0/7		err-disabled	1	auto	auto	unknown
Twe1/0/8		err-disabled	1	auto	auto	unknown
Twe1/0/9		notconnect	1	auto	auto	unknown
Twe1/0/10		notconnect	routed	auto	auto	unknown
Twe1/0/11		notconnect	1	auto	10G	unknown
Twe1/0/12		notconnect	1	auto	10G	unknown
Ap1/0/1		connected	1	a-full	a-10G	App-hosting port
Ap1/0/2		connected	1	a-full	a-10G	App-hosting port

Switch#

2. Read the switch model name and software version, and read the status of all ports on NIC

```
root@fs1-PowerEdge-R860:~# mlxfwmanager -u
Querying Mellanox devices firmware ...
```

```
Device #8:
```

```
-----
Device Type:   ConnectX5
Part Number:   MCX512A-ACA_Ax_Bx
Description:   ConnectX-5 EN network interface card; 10/25GbE dual-port SFP28; PCIe3.0 x8; tall bracket; ROHS R6
PSID:         MT_0000000080
PCI Device Name: /dev/mst/mt4119_pciconf0
Base GUID:     043f720300c3076c
Base MAC:      043f72c3076c
Versions:      Current   Available
FW             16.35.4506  N/A
PXE            3.6.0902   N/A
UEFI           14.29.0015  N/A
```

```
Status:       No matching image found
```

```
root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0
```

Operational Info

```
-----
State                : Active
Physical state       : LinkUp
Speed                : 25GbE
Width                : 1x
FEC                  : Standard RS-FEC - RS(528,514)
Loopback Mode        : No Loopback
Auto Negotiation     : ON
```

Supported Info

```
-----
Enabled Link Speed   : 0x38007013 (25G,10G,1G)
Supported Cable Speed : 0x20002001 (25G,10G,1G)
```

Troubleshooting Info

```
-----
Status Opcode        : 0
Group Opcode         : N/A
Recommendation       : No issue was observed
```

Tool Information

```
-----
Firmware Version     : 16.35.4030
MFT Version          : mft 4.29.0-131
```

```
root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0.1
```

Operational Info

```
-----
State                : Active
Physical state       : LinkUp
Speed                : 25GbE
Width                : 1x
FEC                  : Standard RS-FEC - RS(528,514)
Loopback Mode        : No Loopback
Auto Negotiation     : ON
```

Supported Info

```
-----
Enabled Link Speed   : 0x38007013 (25G,10G,1G)
Supported Cable Speed : 0x20002001 (25G,10G,1G)
```

Troubleshooting Info

 Status Opcode : 0
 Group Opcode : N/A
 Recommendation : No issue was observed

Tool Information

 Firmware Version : 16.35.4030
 MFT Version : mft 4.29.0-131

3. Read the module's basic information from the switch side

```
Switch#show interfaces twentyFiveGigE 1/0/2
TwentyFiveGigE1/0/2 is up, line protocol is up (connected)
Hardware is Twenty Five Gigabit Ethernet, address is f8e9.4fc4.7c02 (bia f8e9.4fc4.7c02)
MTU 1500 bytes, BW 25000000 Kbit/sec, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not set
Full-duplex, 25Gb/s, link type is force-up, media type is SFP-25GBase-SR
Fec is auto
input flow-control is on, output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:09, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  933 packets input, 85272 bytes, 0 no buffer
    Received 933 broadcasts (933 multicasts)
    0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 933 multicast, 0 pause input
    0 input packets with dribble condition detected
  307 packets output, 45568 bytes, 0 underruns
    Output 307 broadcasts (307 multicasts)
    0 output errors, 0 collisions, 2 interface resets
    0 unknown protocol drops
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 pause output
    0 output buffer failures, 0 output buffers swapped out
Switch#show interfaces twentyFiveGigE 1/0/3
TwentyFiveGigE1/0/3 is up, line protocol is up (connected)
Hardware is Twenty Five Gigabit Ethernet, address is f8e9.4fc4.7c03 (bia f8e9.4fc4.7c03)
MTU 1500 bytes, BW 25000000 Kbit/sec, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive not set
Full-duplex, 25Gb/s, link type is force-up, media type is SFP-25GBase-SR
Fec is auto
input flow-control is on, output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:01, output 00:00:15, output hang never
Last clearing of "show interface" counters never
Input queue: 0/2000/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
```

5 minute output rate 0 bits/sec, 0 packets/sec
255 packets input, 28560 bytes, 0 no buffer
Received 255 broadcasts (255 multicasts)
0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 255 multicast, 0 pause input
0 input packets with dribble condition detected
55 packets output, 15400 bytes, 0 underruns
Output 55 broadcasts (55 multicasts)
0 output errors, 0 collisions, 2 interface resets
0 unknown protocol drops
0 babbles, 0 late collision, 0 deferred
0 lost carrier, 0 no carrier, 0 pause output
0 output buffer failures, 0 output buffers swapped out

4. Read the module's basic information from the NIC side

```
root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0 -m
```

Operational Info

State : Active
Physical state : LinkUp
Speed : 25GbE
Width : 1x
FEC : Standard RS-FEC - RS(528,514)
Loopback Mode : No Loopback
Auto Negotiation : ON

Supported Info

Enabled Link Speed : 0x38007013 (25G,10G,1G)
Supported Cable Speed : 0x20002001 (25G,10G,1G)

Troubleshooting Info

Status Opcode : 0
Group Opcode : N/A
Recommendation : No issue was observed

Tool Information

Firmware Version : 16.35.4030
MFT Version : mft 4.29.0-131

Module Info

Temperature [C] : 30 [-5..75]
Voltage [mV] : 3318 [2970..3630]
Bias Current [mA] : 7.400 [1..15]
Rx Power Current [dBm] : -2 [-14..4]
Tx Power Current [dBm] : 0 [-12..4]
Identifier : SFP28/SFP+
Compliance : 100GBASE-SR4 or 25GBASE-SR
Cable Technology : N/A
Cable Type : Optical Module (separated)
OUI : Mellanox
Vendor Name : FS
Vendor Part Number : SFP28-25GSR-85
Vendor Serial Number : A2206100002
Rev : A4

```

Rev : A4
Wavelength [nm] : 850
Transfer Distance [m] : 10
Attenuation (5g,7g,12g)[dB] : N/A
FW Version : N/A
Digital Diagnostic Monitoring : Yes
Power Class : 1.0 W max
CDR RX : OFF
CDR TX : ON
LOS Alarm : N/A
SNR Media Lanes [dB] : N/A
SNR Host Lanes [dB] : N/A
IB Cable Width : N/A
Memory Map Revision : 0
Linear Direct Drive : 0
Cable Breakout : N/A
SMF Length : N/A
MAX Power : 0
Cable Rx AMP : 0
Cable Rx Emphasis : 17
Cable Rx Post Emphasis : 0
Cable Tx Equalization : 17
Wavelength Tolerance : 0.0nm
Module State : N/A
DataPath state [per lane] : N/A
Rx Output Valid [per lane] : 0
Nominal bit rate : 25.750Gb/s
Rx Power Type : Average power
Manufacturing Date : 10_06_22
Active Set Host Compliance Code : N/A
Active Set Media Compliance Code : N/A
Error Code Response : N/A
Module FW Fault : N/A
DataPath FW Fault : N/A
Tx Fault [per lane] : 0
Tx LOS [per lane] : N/A
Tx CDR LOL [per lane] : 0
Rx LOS [per lane] : 0
Rx CDR LOL [per lane] : 0
Tx Adaptive EQ Fault [per lane] : N/A

```

```
root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0.1 -m
```

Operational Info

```

-----
State : Active
Physical state : LinkUp
Speed : 25GbE
Width : 1x
FEC : Standard RS-FEC - RS(528,514)
Loopback Mode : No Loopback
Auto Negotiation : ON

```

Supported Info

```

-----
Enabled Link Speed : 0x38007013 (25G,10G,1G)
Supported Cable Speed : 0x20002001 (25G,10G,1G)

```

Troubleshooting Info

Status Opcode : 0
 Group Opcode : N/A
 Recommendation : No issue was observed

Tool Information

Firmware Version : 16.35.4030
 MFT Version : mft 4.29.0-131

Module Info

Temperature [C] : 32 [-5..75]
 Voltage [mV] : 3304 [2970..3630]
 Bias Current [mA] : 7.400 [1..15]
 Rx Power Current [dBm] : -2 [-14..4]
 Tx Power Current [dBm] : 0 [-12..4]
 Identifier : SFP28/SFP+
 Compliance : 100GBASE-SR4 or 25GBASE-SR
 Cable Technology : N/A
 Cable Type : Optical Module (separated)
 OUI : Mellanox
 Vendor Name : FS
 Vendor Part Number : SFP28-25GSR-85
 Vendor Serial Number : A2206100001

Wavelength [nm] : 850
 Transfer Distance [m] : 10
 Attenuation (5g,7g,12g)[dB] : N/A
 FW Version : N/A
 Digital Diagnostic Monitoring : Yes
 Power Class : 1.0 W max
 CDR RX : OFF
 CDR TX : ON
 LOS Alarm : N/A
 SNR Media Lanes [dB] : N/A
 SNR Host Lanes [dB] : N/A
 IB Cable Width : N/A
 Memory Map Revision : 0
 Linear Direct Drive : 0
 Cable Breakout : N/A
 SMF Length : N/A
 MAX Power : 0
 Cable Rx AMP : 0
 Cable Rx Emphasis : 17
 Cable Rx Post Emphasis : 0
 Cable Tx Equalization : 17
 Wavelength Tolerance : 0.0nm
 Module State : N/A
 DataPath state [per lane] : N/A
 Rx Output Valid [per lane] : 0
 Nominal bit rate : 25.750Gb/s
 Rx Power Type : Average power
 Manufacturing Date : 10_06_22
 Active Set Host Compliance Code : N/A
 Active Set Media Compliance Code : N/A
 Error Code Response : N/A
 Module FW Fault : N/A
 DataPath FW Fault : N/A
 Tx Fault [per lane] : 0
 Tx LOS [per lane] : N/A
 Tx CDR LOL [per lane] : 0
 Rx LOS [per lane] : 0
 Rx CDR LOL [per lane] : 0
 Tx Adaptive EQ Fault [per lane] : N/A

5. Read the DDM information of the module

Switch#show interfaces twentyFiveGigE 1/0/2 transceiver detail
ITU Channel not available (Wavelength not available),
Transceiver is internally calibrated.
mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
A2D readouts (if they differ), are reported in parentheses.
The threshold values are calibrated.

Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
Twe1/0/2	33.2	75.0	70.0	0.0	-5.0

Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Warn Threshold (Volts)	Low Alarm Threshold (Volts)
Twe1/0/2	3.30	3.63	3.46	3.13	2.97

Port	Current Lane (milliamperes)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Warn Threshold (mA)	Low Alarm Threshold (mA)
Twe1/0/2	N/A 7.5	15.0	12.0	2.0	1.0

Port	Optical Transmit Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Twe1/0/2	N/A -0.7	4.0	3.0	-8.0	-11.0

Port	Optical Receive Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Twe1/0/2	N/A -2.0	4.0	3.0	-10.3	-13.3

Switch#show interfaces twentyFiveGigE 1/0/3 transceiver detail
ITU Channel not available (Wavelength not available),
Transceiver is internally calibrated.
mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
A2D readouts (if they differ), are reported in parentheses.
The threshold values are calibrated.

Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
Twe1/0/3	33.3	75.0	70.0	0.0	-5.0

Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Warn Threshold (Volts)	Low Alarm Threshold (Volts)
Twe1/0/3	3.29	3.63	3.46	3.13	2.97

Port	Current Lane (milliamperes)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Warn Threshold (mA)	Low Alarm Threshold (mA)
Twe1/0/3	N/A 7.4	15.0	12.0	2.0	1.0

Port	Optical Transmit Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Twe1/0/3	N/A -0.7	4.0	3.0	-8.0	-11.0

Port	Optical Receive Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Twe1/0/3	N/A -1.4	4.0	3.0	-10.3	-13.3

6. Read the DDM information of NIC

```
root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0 -cable --ddm
```

Operational Info

```
-----  
State : Active  
Physical state : LinkUp  
Speed : 25GbE  
Width : 1x  
FEC : Standard RS-FEC - RS(528,514)  
Loopback Mode : No Loopback  
Auto Negotiation : ON
```

Supported Info

```
-----  
Enabled Link Speed : 0x38007013 (25G,10G,1G)  
Supported Cable Speed : 0x20002001 (25G,10G,1G)
```

Troubleshooting Info

```
-----  
Status Opcode : 0  
Group Opcode : N/A  
Recommendation : No issue was observed
```

Tool Information

```
-----  
Firmware Version : 16.35.4030  
MFT Version : mft 4.29.0-131
```

Cable DDM Information

```
-----  
Temperature : 29C  
Voltage : 3.3130V  
RX Power : -2.000dBm  
TX Power : 0.000dBm  
TX Bias : 7.400mA
```

DDM Flags

```
-----  
Temperature Alarm high : 0  
Temperature Warning high : 0  
Temperature Warning low : 0  
Temperature Alarm low : 0
```

```
Voltage Alarm high : 0  
Voltage Warning high : 0  
Voltage Warning low : 0  
Voltage Alarm low : 0
```

Channel Flags

```
-----  
RX Power Alarm high : 0  
RX Power Warning high : 0  
RX Power Warning low : 0  
RX Power Alarm low : 0
```

```
TX Power Alarm high : 0  
TX Power Warning high : 0  
TX Power Warning low : 0  
TX Power Alarm low : 0
```

```
TX Bias Alarm high : 0  
TX Bias Warning high : 0  
TX Bias Warning low : 0  
TX Bias Alarm low : 0
```

DDM Thresholds

```

-----
Thresholds      : Temperature ,Voltage      ,RX Power      ,TX Power      ,TX Bias
High alarm threshold : 75C      ,3.630V      ,4.000dBm      ,4.000dBm      ,15.000mA
High warning threshold : 70C      ,3.465V      ,3.000dBm      ,3.000dBm      ,12.000mA
Low warning threshold : 0C       ,3.135V      ,-10.301dBm     ,-8.401dBm     ,2.000mA
Low alarm threshold  : -5C      ,2.970V      ,-13.298dBm     ,-11.403dBm     ,1.000mA
  
```

```

root@fs1-PowerEdge-R860:/home/fs# mlxlink -d /dev/mst/mt4119_pciconf0.1 -cable --ddm
  
```

Operational Info

```

-----
State           : Active
Physical state   : LinkUp
Speed           : 25GbE
Width           : 1x
FEC             : Standard RS-FEC - RS(528,514)
Loopback Mode    : No Loopback
Auto Negotiation : ON
  
```

Supported Info

```

-----
Enabled Link Speed      : 0x38007013 (25G,10G,1G)
Supported Cable Speed   : 0x20002001 (25G,10G,1G)
  
```

Troubleshooting Info

```

-----
Status Opcode          : 0
Group Opcode           : N/A
Recommendation          : No issue was observed
  
```

Tool Information

```

-----
Firmware Version       : 16.35.4030
MFT Version            : mft 4.29.0-131
  
```

Cable DDM Information

```

-----
Temperature            : 31C
Voltage                : 3.3040V
RX Power               : -2.000dBm
TX Power               : 0.000dBm
TX Bias                : 7.400mA
  
```

DDM Flags

```

-----
Temperature Alarm high : 0
Temperature Warning high : 0
Temperature Warning low : 0
Temperature Alarm low   : 0

Voltage Alarm high      : 0
Voltage Warning high    : 0
Voltage Warning low     : 0
Voltage Alarm low       : 0
  
```

	Channel Flags ----- RX Power Alarm high : 0 RX Power Warning high : 0 RX Power Warning low : 0 RX Power Alarm low : 0 TX Power Alarm high : 0 TX Power Warning high : 0 TX Power Warning low : 0 TX Power Alarm low : 0 TX Bias Alarm high : 0 TX Bias Warning high : 0 TX Bias Warning low : 0 TX Bias Alarm low : 0 DDM Thresholds ----- <table><tr><td>Thresholds</td><td>: Temperature</td><td>,Voltage</td><td>,RX Power</td><td>,TX Power</td><td>,TX Bias</td></tr><tr><td>High alarm threshold</td><td>: 75C</td><td>,3.630V</td><td>,4.000dBm</td><td>,4.000dBm</td><td>,15.000mA</td></tr><tr><td>High warning threshold</td><td>: 70C</td><td>,3.465V</td><td>,3.000dBm</td><td>,3.000dBm</td><td>,12.000mA</td></tr><tr><td>Low warning threshold</td><td>: 0C</td><td>,3.135V</td><td>, -10.301dBm</td><td>, -8.401dBm</td><td>,2.000mA</td></tr><tr><td>Low alarm threshold</td><td>: -5C</td><td>,2.970V</td><td>, -13.298dBm</td><td>, -11.403dBm</td><td>,1.000mA</td></tr></table>	Thresholds	: Temperature	,Voltage	,RX Power	,TX Power	,TX Bias	High alarm threshold	: 75C	,3.630V	,4.000dBm	,4.000dBm	,15.000mA	High warning threshold	: 70C	,3.465V	,3.000dBm	,3.000dBm	,12.000mA	Low warning threshold	: 0C	,3.135V	, -10.301dBm	, -8.401dBm	,2.000mA	Low alarm threshold	: -5C	,2.970V	, -13.298dBm	, -11.403dBm	,1.000mA
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Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.																														
Remarks	/																														