



# FTBx-88260 Report

## | K-20 Layer-2 Test Results |

**FAIL**

|                |                           |
|----------------|---------------------------|
| Report Header: | K-20 Layer-2 Test Results |
| Report Title:  | K-20 Layer-2 Test Results |
| Report Date:   | 5/21/2025 11:44:38 AM     |
| Type:          | EtherSAM (Y.1564)         |

### **Job Information**

|                  |              |
|------------------|--------------|
| Job ID:          | RTASK4055248 |
| Circuit ID:      | Lumen        |
| Contractor Name: | K-20         |
| Customer Name:   | kent-k12     |
| Operator Name:   | enneking     |
| Comment:         |              |

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## SUMMARY

### Results Summary

| Test Status                       |                       |
|-----------------------------------|-----------------------|
| Service Configuration Test Status | Disabled              |
| Service Performance Test Status   | Completed, Fail       |
| Pass/Fail Verdict                 | FAIL                  |
| Start Time                        | 5/21/2025 11:39:34 AM |
| Duration                          | 00d:00:01:14          |
| Test Recovery                     | 0                     |

### EtherSAM

| Service Performance Summary |              |           |                 |                 |                  |                         |                 |
|-----------------------------|--------------|-----------|-----------------|-----------------|------------------|-------------------------|-----------------|
|                             | Service Name | Direction | Frame Loss Rate | Max Jitter (ms) | Max Latency (ms) | Avg Throughput (Gbit/s) | Service Verdict |
| 1                           | Service 1    | L->R      | 0.0E-00         | 0.01659         |                  | 0.0001                  | --              |
|                             |              | R->L      | 1.6E-01         | 0.02340         | 2.46902          | 15.9816                 | FAIL            |

| Services Summary |              |                          |
|------------------|--------------|--------------------------|
|                  | Service Name | Service Performance Test |
| 1                | Service 1    | FAIL                     |

|                   |           |
|-------------------|-----------|
| VLAN Preservation | Undefined |
|-------------------|-----------|

| RX Power Level    |                      |       |
|-------------------|----------------------|-------|
|                   | Min                  | Max   |
| Power Range (dBm) | -12.60               | 4.50  |
| Optical Lane      | RX Power Level (dBm) |       |
|                   | Min                  | Max   |
| 0                 | 0.90                 | 0.96  |
| 1                 | 0.68                 | 0.73  |
| 2                 | -0.22                | -0.17 |
| 3                 | 0.00                 | 0.07  |

| RX Frequency |                        |                     |
|--------------|------------------------|---------------------|
| CAUI-4 Lane  | Frequency Offset (ppm) |                     |
|              | Max Negative Offset    | Max Positive Offset |
| 0            | 0.0                    | 0.2                 |
| 1            | 0.0                    | 0.2                 |
| 2            | 0.0                    | 0.2                 |
| 3            | 0.0                    | 0.2                 |

## Alarms/Errors

| Alarms/Errors List              |            |
|---------------------------------|------------|
| Active/Historical Alarms/Errors | Frame Loss |

| Interface    |         |             |          |           |
|--------------|---------|-------------|----------|-----------|
| Optical Lane | LOS     | CAUI-4 Lane | LOC Lane | Frequency |
|              | Seconds |             | Seconds  | Seconds   |
| 0            | 0       | 0           | 0        | 0         |
| 1            | 0       | 1           | 0        | 0         |
| 2            | 0       | 2           | 0        | 0         |
| 3            | 0       | 3           | 0        | 0         |

| Ethernet             |         |  |  |
|----------------------|---------|--|--|
| Alarms               | Seconds |  |  |
| Link Down            | 0       |  |  |
| Local Fault Detected | 0       |  |  |
| Local Fault Received | 0       |  |  |
| Remote Fault         | 0       |  |  |
| Hi-BER               | 0       |  |  |

| Errors    | Seconds  | Count | Rate    |
|-----------|----------|-------|---------|
| FCS       | 0        | 0     | 0.00E00 |
| Jabber    | 0        | 0     | 0.00E00 |
| Oversize  | Disabled |       |         |
| Runt      | 0        | 0     | 0.00E00 |
| Undersize | 0        | 0     | 0.00E00 |
| Total     |          | 0     |         |

| PCS Lanes       |         |
|-----------------|---------|
| Alarms          | Seconds |
| LOA             | 0       |
| Invalid Mapping | 0       |

| PCS Lanes |         |         |                |
|-----------|---------|---------|----------------|
| PCS Lane  | LOBL    | LOAML   | Excessive Skew |
| Alarms    | Seconds | Seconds | Seconds        |
| 0         | 0       | 0       | 0              |
| 1         | 0       | 0       | 0              |
| 2         | 0       | 0       | 0              |
| 3         | 0       | 0       | 0              |
| 4         | 0       | 0       | 0              |
| 5         | 0       | 0       | 0              |
| 6         | 0       | 0       | 0              |
| 7         | 0       | 0       | 0              |
| 8         | 0       | 0       | 0              |
| 9         | 0       | 0       | 0              |
| 10        | 0       | 0       | 0              |
| 11        | 0       | 0       | 0              |
| 12        | 0       | 0       | 0              |
| 13        | 0       | 0       | 0              |
| 14        | 0       | 0       | 0              |
| 15        | 0       | 0       | 0              |
| 16        | 0       | 0       | 0              |
| 17        | 0       | 0       | 0              |
| 18        | 0       | 0       | 0              |
| 19        | 0       | 0       | 0              |

|                             |     |
|-----------------------------|-----|
| Skew Alarm Threshold (bits) | 928 |
|-----------------------------|-----|

| PCS Lanes |         |       |         |             |       |         |
|-----------|---------|-------|---------|-------------|-------|---------|
| PCS Lane  | Block   |       |         | Inv. Marker |       |         |
| Errors    | Seconds | Count | Rate    | Seconds     | Count | Rate    |
| 0         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 1         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 2         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 3         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 4         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 5         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 6         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 7         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 8         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 9         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 10        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 11        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 12        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 13        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 14        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 15        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 16        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 17        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 18        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 19        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |

| PCS Lanes |        |         |       |         |
|-----------|--------|---------|-------|---------|
| PCS Lane  | BIP-8  |         |       |         |
|           | Errors | Seconds | Count | Rate    |
| 0         | 0      | 0       | 0     | 0.00E00 |
| 1         | 0      | 0       | 0     | 0.00E00 |
| 2         | 0      | 0       | 0     | 0.00E00 |
| 3         | 0      | 0       | 0     | 0.00E00 |
| 4         | 0      | 0       | 0     | 0.00E00 |
| 5         | 0      | 0       | 0     | 0.00E00 |
| 6         | 0      | 0       | 0     | 0.00E00 |
| 7         | 0      | 0       | 0     | 0.00E00 |
| 8         | 0      | 0       | 0     | 0.00E00 |
| 9         | 0      | 0       | 0     | 0.00E00 |
| 10        | 0      | 0       | 0     | 0.00E00 |
| 11        | 0      | 0       | 0     | 0.00E00 |
| 12        | 0      | 0       | 0     | 0.00E00 |
| 13        | 0      | 0       | 0     | 0.00E00 |
| 14        | 0      | 0       | 0     | 0.00E00 |
| 15        | 0      | 0       | 0     | 0.00E00 |
| 16        | 0      | 0       | 0     | 0.00E00 |
| 17        | 0      | 0       | 0     | 0.00E00 |
| 18        | 0      | 0       | 0     | 0.00E00 |
| 19        | 0      | 0       | 0     | 0.00E00 |

| Clock Sync |         |
|------------|---------|
| Alarm      | Seconds |
| LOC        | 0       |

| IP/UDP       |         |       |         |
|--------------|---------|-------|---------|
| Errors       | Seconds | Count | Rate    |
| IP Checksum  | 0       | 0     | 0.00E00 |
| UDP Checksum | 0       | 0     | 0.00E00 |
| Total        |         | 0     |         |

## Setup Summary

|                  |                   |
|------------------|-------------------|
| Application Type | EtherSAM (Y.1564) |
|------------------|-------------------|

|          |             |
|----------|-------------|
| Topology | Single Port |
|----------|-------------|

| Interface      | Port B1                          |
|----------------|----------------------------------|
| Interface/Rate | 100GE (4 Lanes) [103.125 Gbit/s] |
| PHY Type       | LR4/ER4                          |
| Connector      | QSFP28                           |

|              |      |
|--------------|------|
| Flow Control | None |
|--------------|------|

## EtherSAM

|                      |           |
|----------------------|-----------|
| DTS Enabled          |           |
| Remote ID            | MAX-890F1 |
| Nat Router Detection | No NAT    |
| Local WAN IP         | N/A       |
| Pass/Fail Verdict    | Enabled   |

| Sub-Tests                  |          |                          |              |
|----------------------------|----------|--------------------------|--------------|
| Service Configuration Test |          | Service Performance Test |              |
| Ramp Test                  | Disabled | Status                   | Enabled      |
| Burst selection            | Disabled | Duration                 | 00d:00:01:00 |
| Duration                   | 00:00:00 |                          |              |

## Services

|                                  |      |         |
|----------------------------------|------|---------|
| Total Committed TX Rate (Gbit/s) | L->R | 0.0001  |
|                                  | R->L | 19.0000 |

| Services Summary |              |         |                    |           |              |                 |                  |                 |             |
|------------------|--------------|---------|--------------------|-----------|--------------|-----------------|------------------|-----------------|-------------|
|                  | Service Name | Profile | Frame Size (Bytes) | Direction | CIR (Gbit/s) | Max Jitter (ms) | Max Latency (ms) | Frame Loss Rate | CBS (Bytes) |
| 1                | Service 1    | Data    | Random             | L->R      | 0.0001       | 2.00000         |                  | 1.0E-04         | --          |
|                  |              |         |                    | R->L      | 19.0000      | 2.00000         | 28.00000         | 1.0E-04         |             |

## TEST RESULTS

### Ethernet Traffic

| Frame Type  | TX Count | RX Count  |
|-------------|----------|-----------|
| Multicast   | 0        | 2         |
| Broadcast   | 1        | 1         |
| Unicast     | 2328     | 146934380 |
| Non-Unicast | 1        | 3         |
| Total       | 2329     | 146934383 |

| Frame Size (Bytes) | RX Count  | %    |
|--------------------|-----------|------|
| < 64               | 0         | 0.0  |
| 64                 | 140       | 0.0  |
| 65 - 127           | 6111324   | 4.1  |
| 128 - 255          | 12904682  | 8.7  |
| 256 - 511          | 25572838  | 17.4 |
| 512 - 1023         | 51633895  | 35.1 |
| 1024 - 1518        | 50711504  | 34.5 |
| > 1518             | 0         | 0.0  |
| Total              | 146934383 |      |

## Detailed EtherSAM Results

### Service Configuration Test

#### Service 1 : Service 1

### Service Performance Test

#### Service 1 : Service 1

|                     | Direction  | Average | Minimum   | Maximum | Estimate |
|---------------------|------------|---------|-----------|---------|----------|
| Throughput (Gbit/s) | L->R       | 0.0001  | 0.0000    | 0.0001  | N/A      |
|                     | R->L       | 15.9816 | 15.3606   | 16.1999 | N/A      |
| Jitter (ms)         | L->R       | 0.00357 | 0.00001   | 0.01659 | 0.00323  |
|                     | R->L       | 0.00056 | < 0.00001 | 0.02340 | 0.00039  |
| Latency (ms)        | Round-trip | 2.31740 | 2.24247   | 2.46902 | N/A      |
|                     |            | Seconds | Count     | Rate    |          |
| Frame Loss          | L->R       | 0       | 0         | 0.0E00  |          |
|                     | R->L       | 57      | 26886418  | 1.6E-01 |          |
| Out-of-Sequence     | L->R       | 0       | 0         | 0.0E00  |          |
|                     | R->L       | 0       | 0         | 0.0E00  |          |

## TEST SETUP

| Clock Synchronization |          |
|-----------------------|----------|
| Clock Mode            | Internal |

## Detailed Services Configuration

|                                  |         |         |
|----------------------------------|---------|---------|
| IP Version                       | IPv4    |         |
| Layer Mode                       | Mixed   |         |
| Global Pass/Fail Verdict         | Enabled |         |
|                                  | L->R    | R->L    |
| Total Committed TX Rate (Gbit/s) | 0.0001  | 19.0000 |

### Service 1

| Service Profile |           |
|-----------------|-----------|
| Service Name    | Service 1 |
| Profile         | Data      |
| Frame Size Type | Random    |

| SLA Parameters       |          |          |
|----------------------|----------|----------|
|                      | L->R     | R->L     |
| Information Rate     |          |          |
| CIR (Gbit/s)         | 0.0001   | 19.0000  |
| Performance Criteria |          |          |
| Max Jitter (ms)      | 2.00000  | 2.00000  |
| Max Latency (ms)     | 28.00000 | 28.00000 |
| Frame Loss Rate      | 1.0E-04  | 1.0E-04  |

| Test Parameters |      |      |
|-----------------|------|------|
|                 | L->R | R->L |

| Framing         |             |      |
|-----------------|-------------|------|
| Frame Format    | Ethernet II |      |
| Network Layer   | IPv4        |      |
| Transport Layer | UDP         |      |
|                 | L->R        | R->L |
| VLAN            | None        | None |

## Addressing

|      |             | MAC               | IP Address                   | UDP Port |
|------|-------------|-------------------|------------------------------|----------|
| L->R | Source      | 00:03:01:F8:88:FC | 10.112.0.1 / 255.255.255.0   | 49184    |
|      | Destination | 00:03:01:14:55:3D | 10.112.0.100                 | 7        |
| R->L | Source      | 00:03:01:14:55:3D | 10.112.0.100 / 255.255.255.0 | 7        |
|      | Destination | 00:03:01:F8:88:FC | 10.112.0.1                   | 49184    |

|                     | L->R     | R->L     |
|---------------------|----------|----------|
| EtherType           | 0x0800   | 0x0800   |
| Automatic IP (DHCP) | Disabled | Disabled |
| TTL                 | 128      | 128      |
| TOS                 | 0x00     | 0x00     |
| Default Gateway     | Disabled | Disabled |

## FUNCTIONS

### 40/100G Advanced

#### Lanes Mapping & Skew

| TX       |             | CAUI-4 Lane | RX          |          |
|----------|-------------|-------------|-------------|----------|
| PCS Lane | Skew (bits) |             | Skew (bits) | PCS Lane |
| 0        | 0           | 0           | 55          | 2        |
| 1        | 0           |             | 55          | 3        |
| 2        | 0           |             | 55          | 4        |
| 3        | 0           |             | 54          | 0        |
| 4        | 0           | 1           | 54          | 1        |
| 5        | 0           |             | 1           | 7        |
| 6        | 0           |             | 1           | 8        |
| 7        | 0           |             | 1           | 9        |
| 8        | 0           | 2           | 0           | 5        |
| 9        | 0           |             | 0           | 6        |
| 10       | 0           |             | 28          | 11       |
| 11       | 0           |             | 28          | 12       |
| 12       | 0           | 3           | 28          | 13       |
| 13       | 0           |             | 28          | 14       |
| 14       | 0           |             | 27          | 10       |
| 15       | 0           |             | 48          | 15       |
| 16       | 0           |             | 48          | 16       |
| 17       | 0           |             | 48          | 17       |
| 18       | 0           |             | 48          | 18       |
| 19       | 0           |             | 48          | 19       |

| PCS Lanes                   |         |         |                |
|-----------------------------|---------|---------|----------------|
| PCS Lane                    | LOBL    | LOAML   | Excessive Skew |
| Alarms                      | Seconds | Seconds | Seconds        |
| 0                           | 0       | 0       | 0              |
| 1                           | 0       | 0       | 0              |
| 2                           | 0       | 0       | 0              |
| 3                           | 0       | 0       | 0              |
| 4                           | 0       | 0       | 0              |
| 5                           | 0       | 0       | 0              |
| 6                           | 0       | 0       | 0              |
| 7                           | 0       | 0       | 0              |
| 8                           | 0       | 0       | 0              |
| 9                           | 0       | 0       | 0              |
| 10                          | 0       | 0       | 0              |
| 11                          | 0       | 0       | 0              |
| 12                          | 0       | 0       | 0              |
| 13                          | 0       | 0       | 0              |
| 14                          | 0       | 0       | 0              |
| 15                          | 0       | 0       | 0              |
| 16                          | 0       | 0       | 0              |
| 17                          | 0       | 0       | 0              |
| 18                          | 0       | 0       | 0              |
| 19                          | 0       | 0       | 0              |
| Skew Alarm Threshold (bits) |         | 928     |                |

| PCS Lanes |         |       |         |             |       |         |
|-----------|---------|-------|---------|-------------|-------|---------|
| PCS Lane  | Block   |       |         | Inv. Marker |       |         |
| Errors    | Seconds | Count | Rate    | Seconds     | Count | Rate    |
| 0         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 1         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 2         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 3         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 4         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 5         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 6         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 7         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 8         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 9         | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 10        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 11        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 12        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 13        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 14        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 15        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 16        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 17        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 18        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |
| 19        | 0       | 0     | 0.00E00 | 0           | 0     | 0.00E00 |

| PCS Lanes          |         |       |         |
|--------------------|---------|-------|---------|
| PCS Lane<br>Errors | BIP-8   |       |         |
|                    | Seconds | Count | Rate    |
| 0                  | 0       | 0     | 0.00E00 |
| 1                  | 0       | 0     | 0.00E00 |
| 2                  | 0       | 0     | 0.00E00 |
| 3                  | 0       | 0     | 0.00E00 |
| 4                  | 0       | 0     | 0.00E00 |
| 5                  | 0       | 0     | 0.00E00 |
| 6                  | 0       | 0     | 0.00E00 |
| 7                  | 0       | 0     | 0.00E00 |
| 8                  | 0       | 0     | 0.00E00 |
| 9                  | 0       | 0     | 0.00E00 |
| 10                 | 0       | 0     | 0.00E00 |
| 11                 | 0       | 0     | 0.00E00 |
| 12                 | 0       | 0     | 0.00E00 |
| 13                 | 0       | 0     | 0.00E00 |
| 14                 | 0       | 0     | 0.00E00 |
| 15                 | 0       | 0     | 0.00E00 |
| 16                 | 0       | 0     | 0.00E00 |
| 17                 | 0       | 0     | 0.00E00 |
| 18                 | 0       | 0     | 0.00E00 |
| 19                 | 0       | 0     | 0.00E00 |

## Ping & Trace Route

| Network                |                       |
|------------------------|-----------------------|
| Source MAC Address     | 00:03:01:F8:88:FC     |
| Source IP Address      | 10.112.0.1 (Stream 1) |
| Destination IP Address | 10.112.0.100          |

| Ping                  |      |
|-----------------------|------|
| Timeout (ms)          | 4000 |
| Delay (ms)            | 1000 |
| Data Size (Bytes)     | 32   |
| TTL                   | 128  |
| Type Of Service (TOS) | 0x00 |

| Ping Statistics              |    |
|------------------------------|----|
| Packets Transmitted          | -- |
| Packets Received             | -- |
| Percentage Lost (%)          | -- |
| Minimum Round Trip Time (ms) | -- |
| Maximum Round Trip Time (ms) | -- |
| Average Round Trip Time (ms) | -- |

| Trace Route   |      |
|---------------|------|
| Timeout (ms)  | 4000 |
| Max Hop Count | 128  |

## SYSTEM INFORMATION

|                                   |                           |
|-----------------------------------|---------------------------|
| <b>Product Name</b>               | Power Blazer Series       |
| <b>Version</b>                    | Power Blazer Series 1.130 |
| <b>Module ID</b>                  | FTBx-88260                |
| <b>Slot ID</b>                    | 2                         |
| <b>Software Product Version</b>   | 1.130.0.89                |
|                                   | Power Blazer Series 1.130 |
| <b>Assembly Hardware Revision</b> | D                         |
| <b>Serial Number</b>              | 1886703                   |
| <b>Calibration Date</b>           | 2/25/2025 1:12:00 PM      |

## Transceiver System

|                                             |           |
|---------------------------------------------|-----------|
| <b>Transceiver System Insertion Counter</b> | 1         |
| <b>ID</b>                                   | TA-QSFP28 |
| <b>Serial Number</b>                        | 1890335   |
| <b>Revision</b>                             | C         |
| <b>Battery</b>                              | Good      |
| <b>Optical Module Insertion Counter</b>     | 1         |

## Pluggable Module

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Module ID</b>            | QSFP28 or later             |
| <b>Vendor Name</b>          | ADDON                       |
| <b>Part Number</b>          | JNP-QSFP100G-LR4            |
| <b>Serial Number</b>        | ADDEED144840                |
| <b>Hardware Revision</b>    | J3                          |
| <b>Revision Compliance</b>  | 8                           |
| <b>Connector Type</b>       | LC                          |
| <b>Speed</b>                | 25G, 103.125 Gbit/s         |
| <b>Type/Compliance Code</b> | LR, 100GE-LR4-10km, 10.0 km |
| <b>Mode</b>                 | SMF                         |
| <b>Power Class</b>          | Power Class 4 (<= 3.5W)     |
| <b>Temperature (Max)</b>    | 35.9 °C                     |
| <b>CLEI Code</b>            |                             |

## Software Options

|               |                                                                  |          |
|---------------|------------------------------------------------------------------|----------|
| 100electrical | Ethernet 100Base-TX (Electrical) Interface                       | Enabled  |
| 100GE         | Ethernet 100G                                                    | Enabled  |
| 100optical    | Ethernet 100Base-FX (Optical) Interface                          | Enabled  |
| 10electrical  | Ethernet 10Base-T (Electrical) Interface                         | Enabled  |
| 10G_LAN       | Ethernet 10G LAN (Optical) and 10GBASE-T (Electrical) interfaces | Enabled  |
| 10G_WAN       | Ethernet 10G WAN optical interface                               | Enabled  |
| 155M          | 155 Mbit/s                                                       | Disabled |
| 1588PTP       | 1588 Precision Time Protocol                                     | Disabled |
| 1588PTPGM     | 1588 Precision Time Protocol Grandmaster Emulation               | Disabled |
| 2.5-5GE       | Ethernet 2.5GBASE-T and 5GBASE-T (Electrical) interfaces         | Disabled |
| 2488M         | 2.488 Gbit/s                                                     | Disabled |
| 25GE          | Ethernet 25G                                                     | Disabled |
| 40GE          | Ethernet 40G                                                     | Disabled |

|                    |                                                      |          |
|--------------------|------------------------------------------------------|----------|
| 50GE               | Ethernet 50G                                         | Disabled |
| 52M                | 52 Mbit/s                                            | Enabled  |
| 622M               | 622 Mbit/s                                           | Disabled |
| 9953M              | 9.953 Gbit/s                                         | Disabled |
| CPRI               | CPRI 2.4576 Gbit/s and 3.072 Gbit/s                  | Disabled |
| CPRI-1.2G          | CPRI 1.2288 Gbit/s                                   | Disabled |
| CPRI-10.1G         | CPRI 10.1376 Gbit/s                                  | Disabled |
| CPRI-24.3G         | CPRI 24.33024 Gbit/s                                 | Disabled |
| CPRI-4.9G          | CPRI 4.9152 Gbit/s                                   | Disabled |
| CPRI-6.1G          | CPRI 6.144 Gbit/s                                    | Disabled |
| CPRI-9.8G          | CPRI 9.8304 Gbit/s                                   | Disabled |
| DCO-100ZR          | 100ZR                                                | Disabled |
| DSn                | Digital Signal (DS1, DS3)                            | Disabled |
| eCPRI-100G         | eCPRI over 100G Ethernet                             | Disabled |
| eCPRI-10G          | eCPRI over 10G Ethernet                              | Disabled |
| eCPRI-25G          | eCPRI over 25G Ethernet                              | Disabled |
| EoE                | Ethernet over Ethernet Encapsulation (10GE and less) | Disabled |
| EoE_40-100GE       | Ethernet over Ethernet Encapsulation (40/100GE)      | Disabled |
| EoOTN              | Ethernet over Optical Transport Network              | Disabled |
| ETH-OAM            | Carrier Ethernet OAM Test Application                | Disabled |
| FC-10X             | Fibre Channel 10X                                    | Disabled |
| FC-16X             | Fibre Channel 16X                                    | Disabled |
| FC-1X              | Fibre Channel 1X                                     | Disabled |
| FC-2X              | Fibre Channel 2X                                     | Disabled |
| FC-32X             | Fibre Channel 32X                                    | Disabled |
| FC-4X              | Fibre Channel 4X                                     | Disabled |
| FC-8X              | Fibre Channel 8X                                     | Disabled |
| FlexE-100G         | 100G FlexE Group                                     | Disabled |
| FlexE-200G         | 200G FlexE Group                                     | Disabled |
| FlexE-50G          | 50G FlexE Group                                      | Disabled |
| FlexE-50G-PHY      | FlexE 50G Interface Type                             | Disabled |
| FlexE-HiRateClient | FlexE Clients at 150G and above                      | Disabled |
| FlexE-LoRateClient | FlexE Clients at 100G and below                      | Disabled |
| FlexE-MIX          | FlexE Clients at mixed rates                         | Disabled |
| G.mtnPathOAM       | G.mtn Path OAM                                       | Disabled |
| GCC-BERT           | OTN Overhead BERT and Synchronization Validation     | Disabled |
| GigE_Electrical    | Ethernet 1000Base-T (Electrical) Interface           | Enabled  |
| GigE_Optical       | Ethernet 1000Base-X (Optical) Interface              | Enabled  |
| iOptics            | Intelligent Pluggable Optic Test Application         | Enabled  |
| iSAM               | Intelligent Service Activation Methodology           | Disabled |
| L2-Transparency    | L2CP Handling Test in EtherSAM                       | Disabled |
| LINK-OAM           | Link OAM                                             | Disabled |
| LLDP               | LLDP Neighbor Discovery                              | Disabled |
| MPLS               | MPLS Encapsulation (10GE and less)                   | Disabled |
| MPLS_40-100GE      | MPLS Encapsulation (40/100GE)                        | Disabled |
| OBSAI              | OBSAI 3.072 Gbit/s                                   | Disabled |

|                  |                                                             |          |
|------------------|-------------------------------------------------------------|----------|
| OBSAI-1.5G       | OBSAI 1.536 Gbit/s                                          | Disabled |
| OBSAI-6.1G       | OBSAI 6.144 Gbit/s                                          | Disabled |
| ODU0             | OTN ODU0                                                    | Disabled |
| ODUflex          | OTN ODUflex                                                 | Disabled |
| ODUMUX           | ODU Multiplexing Payload Type 20 and 21                     | Disabled |
| OTN-INTR-THRU    | OTN Intrusive Through Mode                                  | Disabled |
| OTU1             | Optical Transport Unit-1 (2.7 Gbit/s)                       | Disabled |
| OTU2             | Optical Transport Unit-2 (10.7 Gbit/s)                      | Disabled |
| OTU2-1e-2e       | Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s) | Disabled |
| OTU2-1f-2f       | Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s) | Disabled |
| OTU3             | Optical Transport Unit-3 (43.018 Gbit/s)                    | Disabled |
| OTU3-e1-e2       | Optical Transport Unit-3 Overclocked (44.571/44.583 Gbit/s) | Disabled |
| OTU4             | Optical Transport Unit-4 (111.81 Gbit/s)                    | Disabled |
| Packet-TE        | Packet Time Error                                           | Disabled |
| PBBTE            | Provider Backbone Bridge Encapsulation (10GE and less)      | Disabled |
| PBBTE_40-100GE   | Provider Backbone Bridge Encapsulation (40/100GE)           | Disabled |
| PDH              | Plesiochronous Digital Hierarchy (E1, E3, E4)               | Disabled |
| RFC6349          | RFC 6349 Test Application (25GE and less)                   | Disabled |
| RFC6349_40-100GE | RFC 6349 Test Application (40/100GE)                        | Disabled |
| SDH              | Synchronous Digital Hierarchy                               | Enabled  |
| SONET            | Synchronous Optical Network                                 | Enabled  |
| SyncE            | Synchronous Ethernet                                        | Disabled |
| TCM              | Tandem Connection Monitoring HO/LO                          | Disabled |
| TST-OAM          | Test Over Service OAM                                       | Disabled |
| WANDER           | Time Error/Wander Test Application                          | Disabled |

## LOGGER

| ID | Start Time        | Event                            | Duration | Details                                                                                   |
|----|-------------------|----------------------------------|----------|-------------------------------------------------------------------------------------------|
| 1  | 05/21 11:39:34 AM | Test Started                     |          | 2025-05-21                                                                                |
| 2  | 05/21 11:39:37 AM | Service Performance test started |          | 2025-05-21                                                                                |
| 3  | 05/21 11:39:42 AM | Frame Loss                       | 00:01:07 | 26886418/26886418 S(1)                                                                    |
| 4  | 05/21 11:40:48 AM | RX Rate < 19000.0 Mbit/s         | 00:00:01 | 15981.6 Mbit/s S(1)                                                                       |
| 5  | 05/21 11:40:48 AM | Frame Loss > 1.0E-04             | 00:00:01 | 1.6E-01 S(1)                                                                              |
| 6  | 05/21 11:40:48 AM | Service 1 Fail                   |          | 1 Service 1                                                                               |
| 7  | 05/21 11:40:48 AM | Test Stopped                     |          |  FAIL |