



# FTBx-88260 Report

| K-20 Layer-2 Test

PASS

Report Header: K-20 Layer-2 Test  
Report Title: K-20 Layer-2 Test  
Report Date: 7/15/2025 11:05:16 AM  
Type: EtherSAM (Y.1564)

## Job Information

Job ID: RTASK4537813  
Circuit ID: StarTouch:EPHWESK2-1G-061015  
Contractor Name:  
Customer Name: ephrata-k12  
Operator Name: daniel dh  
Comment:

---

**Table of contents**

|                          |    |
|--------------------------|----|
| SUMMARY .....            | 1  |
| TEST RESULTS .....       | 8  |
| TEST SETUP .....         | 9  |
| FUNCTIONS .....          | 12 |
| SYSTEM INFORMATION ..... | 17 |
| LOGGER .....             | 20 |

## SUMMARY

### Results Summary

| Test Status                       |                       |
|-----------------------------------|-----------------------|
| Service Configuration Test Status | Completed, Pass       |
| Service Performance Test Status   | Completed, Pass       |
| Pass/Fail Verdict                 | PASS                  |
| Start Time                        | 7/15/2025 10:39:14 AM |
| Duration                          | 00d:00:10:48          |
| Test Recovery                     | 0                     |

### EtherSAM

| Services Summary |               |                            |                          |
|------------------|---------------|----------------------------|--------------------------|
|                  | Service Name  | Service Configuration Test | Service Performance Test |
| 1                | Standard Test | PASS                       | PASS                     |

| Service Configuration Summary |               |                 |                 |                  |                         |                 |
|-------------------------------|---------------|-----------------|-----------------|------------------|-------------------------|-----------------|
|                               | Service Name  | Frame Loss Rate | Max Jitter (ms) | Max Latency (ms) | Max Throughput (Mbit/s) | Service Verdict |
| 1                             | Standard Test | 3.4E-06         | 0.19507         | 12.27267         | 1899.9                  | PASS            |

| Service Performance Summary |               |                 |                 |                  |                         |                 |
|-----------------------------|---------------|-----------------|-----------------|------------------|-------------------------|-----------------|
|                             | Service Name  | Frame Loss Rate | Max Jitter (ms) | Max Latency (ms) | Avg Throughput (Mbit/s) | Service Verdict |
| 1                           | Standard Test | 0.0E-00         | 0.24697         | 12.63213         | 1900.0                  | PASS            |

|                          |                      |
|--------------------------|----------------------|
| <b>VLAN Preservation</b> | No Mismatch Detected |
|--------------------------|----------------------|

| RX Power Level    |                      |       |
|-------------------|----------------------|-------|
|                   | Min                  | Max   |
| Power Range (dBm) | -12.60               | 4.50  |
| Optical Lane      | RX Power Level (dBm) |       |
|                   | Min                  | Max   |
| 0                 | 0.88                 | 0.95  |
| 1                 | 0.66                 | 0.74  |
| 2                 | -0.33                | -0.23 |
| 3                 | -0.01                | 0.08  |

| RX Frequency |                        |                     |
|--------------|------------------------|---------------------|
| CAUI-4 Lane  | Frequency Offset (ppm) |                     |
|              | Max Negative Offset    | Max Positive Offset |
| 0            | 0.0                    | 0.3                 |
| 1            | 0.0                    | 0.3                 |
| 2            | 0.0                    | 0.3                 |
| 3            | 0.0                    | 0.3                 |

## Alarms/Errors

| Alarms/Errors List              |      |
|---------------------------------|------|
| Active/Historical Alarms/Errors | None |

| 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<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 |

| 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

|                   |         |
|-------------------|---------|
| Pass/Fail Verdict | Enabled |
|-------------------|---------|

| Sub-Tests                  |          |                          |              |
|----------------------------|----------|--------------------------|--------------|
| Service Configuration Test |          | Service Performance Test |              |
| Ramp Test                  | Enabled  | Status                   | Enabled      |
| Burst selection            | Disabled | Duration                 | 00d:00:10:00 |
| Duration                   | 00:00:20 |                          |              |

| Ramp          |       |
|---------------|-------|
| Step Time (s) | 5     |
| Step Values   |       |
| 1             | 50 %  |
| 2             | 75 %  |
| 3             | 90 %  |
| 4             | 100 % |

## Services

|                                  |        |
|----------------------------------|--------|
| Total Committed TX Rate (Mbit/s) | 1900.0 |
|----------------------------------|--------|

| Services Summary |               |         |                    |              |                 |                  |                 |             |
|------------------|---------------|---------|--------------------|--------------|-----------------|------------------|-----------------|-------------|
|                  | Service Name  | Profile | Frame Size (Bytes) | CIR (Mbit/s) | Max Jitter (ms) | Max Latency (ms) | Frame Loss Rate | CBS (Bytes) |
| 1                | Standard Test | Data    | EMIX               | 1900.0       | 2.00000         | 28.00000         | 1.0E-04         | --          |

## TEST RESULTS

### Ethernet Traffic

| Frame Type  | TX Count | RX Count |
|-------------|----------|----------|
| Multicast   | 0        | 348      |
| Broadcast   | 2        | 0        |
| Unicast     | 70921942 | 70921940 |
| Non-Unicast | 2        | 348      |
| Total       | 70921944 | 70922288 |

| Frame Size (Bytes) | RX Count | %    |
|--------------------|----------|------|
| < 64               | 0        | 0.0  |
| 64                 | 3        | 0.0  |
| 65 - 127           | 11820647 | 16.6 |
| 128 - 255          | 11820323 | 16.6 |
| 256 - 511          | 24       | 0.0  |
| 512 - 1023         | 11820323 | 16.6 |
| 1024 - 1518        | 23640646 | 33.3 |
| > 1518             | 11820322 | 16.6 |
| Total              | 70922288 |      |

## Detailed EtherSAM Results

### Service Configuration Test

#### Service 1 : Standard Test

| Committed Steps |                 |                 |                  |         |                         |
|-----------------|-----------------|-----------------|------------------|---------|-------------------------|
| Committed Step  | Frame Loss Rate | Max Jitter (ms) | Max Latency (ms) | Verdict | Avg Throughput (Mbit/s) |
| 1-50%CIR        | 3.4E-06         | 0.19507         | 12.15944         | PASS    | 949.9                   |
| 2-75%CIR        | 0.0E-00         | 0.17465         | 12.23803         | PASS    | 1424.9                  |
| 3-90%CIR        | 0.0E-00         | 0.12165         | 12.20816         | PASS    | 1709.9                  |
| CIR             | 0.0E-00         | 0.11458         | 12.27267         | PASS    | 1899.9                  |

### Service Performance Test

#### Service 1 : Standard Test

|                     | Average  | Minimum   | Maximum  | Estimate |
|---------------------|----------|-----------|----------|----------|
| Throughput (Mbit/s) | 1900.0   | 1899.8    | 1900.2   | N/A      |
| Jitter (ms)         | 0.01365  | < 0.00001 | 0.24697  | 0.01225  |
| Latency (ms)        | 12.03557 | 11.77980  | 12.63213 | N/A      |
|                     | Seconds  | Count     | Rate     |          |
| Frame Loss          | 0        | 0         | 0.0E00   |          |
| Out-of-Sequence     | 0        | 0         | 0.0E00   |          |

## TEST SETUP

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

## Detailed Services Configuration

---

|                                  |         |
|----------------------------------|---------|
| Layer Mode                       | Mixed   |
| IP Version                       | IPv4    |
| Global Pass/Fail Verdict         | Enabled |
| Total Committed TX Rate (Mbit/s) | 1900.0  |

## Service 1

| Service Profile    |                                |
|--------------------|--------------------------------|
| Service Name       | Standard Test                  |
| Profile            | Data                           |
| Frame Size Type    | EMIX                           |
| Frame Size (Bytes) | 70, 128, 512, 1024, 1518, 9000 |

| SLA Parameters       |          |
|----------------------|----------|
| Information Rate     |          |
| CIR (Mbit/s)         | 1900.0   |
| Performance Criteria |          |
| Max Jitter (ms)      | 2.00000  |
| Max Latency (ms)     | 28.00000 |
| Frame Loss Rate      | 1.0E-04  |

## Test Parameters

| Framing         |             |
|-----------------|-------------|
| Frame Format    | Ethernet II |
| Network Layer   | IPv4        |
| Transport Layer | UDP         |
| VLAN            | None        |
| MPLS            | Disabled    |

## Addressing

|             | MAC               | IP Address               | UDP Port |
|-------------|-------------------|--------------------------|----------|
| Source      | 00:03:01:F8:88:FC | 10.112.0.1 / 255.255.0.0 | 49184    |
| Destination | 00:03:01:14:55:04 | 10.112.0.100             | 7        |

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

## FUNCTIONS

### 40/100G Advanced

#### Lanes Mapping & Skew

| TX       |             | CAUI-4 Lane | RX          |          |
|----------|-------------|-------------|-------------|----------|
| PCS Lane | Skew (bits) |             | Skew (bits) | PCS Lane |
| 0        | 0           | <b>0</b>    | 44          | 3        |
| 1        | 0           |             | 44          | 4        |
| 2        | 0           |             | 43          | 0        |
| 3        | 0           |             | 43          | 1        |
| 4        | 0           | <b>1</b>    | 43          | 2        |
| 5        | 0           |             | 1           | 7        |
| 6        | 0           |             | 1           | 8        |
| 7        | 0           |             | 1           | 9        |
| 8        | 0           | <b>2</b>    | 0           | 5        |
| 9        | 0           |             | 0           | 6        |
| 10       | 0           |             | 28          | 11       |
| 11       | 0           |             | 28          | 12       |
| 12       | 0           | <b>3</b>    | 28          | 13       |
| 13       | 0           |             | 28          | 14       |
| 14       | 0           |             | 27          | 10       |
| 15       | 0           |             | 22          | 17       |
| 16       | 0           | <b>3</b>    | 22          | 18       |
| 17       | 0           |             | 22          | 19       |
| 18       | 0           |             | 21          | 15       |
| 19       | 0           |             | 21          | 16       |

| 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 |

## 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)          | 1000 |
| Delay (ms)            | 1000 |
| Data Size (Bytes)     | 32   |
| TTL                   | 128  |
| Type Of Service (TOS) | 0x00 |

| Ping Results |              |                                                |
|--------------|--------------|------------------------------------------------|
| No.          | Status       | Reply Details                                  |
| 1            | Timeout      |                                                |
| 2            | Timeout      |                                                |
| 3            | Timeout      |                                                |
| 4            | Timeout      |                                                |
| 5            | Timeout      |                                                |
| 6            | Timeout      |                                                |
| 7            | Timeout      |                                                |
| 8            | Timeout      |                                                |
| 9            | Timeout      |                                                |
| 10           | Timeout      |                                                |
| 11           | Timeout      |                                                |
| 12           | Timeout      |                                                |
| 13           | Timeout      |                                                |
| 14           | Timeout      |                                                |
| 15           | Timeout      |                                                |
| 16           | Timeout      |                                                |
| 17           | Timeout      |                                                |
| 18           | Timeout      |                                                |
| 19           | Timeout      |                                                |
| 20           | Timeout      |                                                |
| 21           | Timeout      |                                                |
| 22           | Successful   | IP=10.112.0.100, Bytes=32, Time=25 ms, TTL=127 |
| 23           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 24           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 25           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 26           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 27           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 28           | Successful   | IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127 |
| 29           | User aborted |                                                |

| Ping Statistics              |      |
|------------------------------|------|
| Packets Transmitted          | 28   |
| Packets Received             | 7    |
| Percentage Lost (%)          | 75.0 |
| Minimum Round Trip Time (ms) | 12   |
| Maximum Round Trip Time (ms) | 25   |
| Average Round Trip Time (ms) | 13   |

| Trace Route   |      |
|---------------|------|
| Timeout (ms)  | 1000 |
| Max Hop Count | 128  |

## SYSTEM INFORMATION

|                            |                           |
|----------------------------|---------------------------|
| Product Name               | Power Blazer Series       |
| Version                    | Power Blazer Series 1.133 |
| Module ID                  | FTBx-88260                |
| Slot ID                    | 2                         |
| Software Product Version   | 1.133.0.98                |
|                            | Power Blazer Series 1.133 |
| Assembly Hardware Revision | D                         |
| Serial Number              | 1886703                   |
| Calibration Date           | 2/25/2025 1:12:00 PM      |

## Transceiver System

|                                      |           |
|--------------------------------------|-----------|
| Transceiver System Insertion Counter | 1         |
| ID                                   | TA-QSFP28 |
| Serial Number                        | 1890335   |
| Revision                             | C         |
| Battery                              | Good      |
| Optical Module Insertion Counter     | 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>    | 36.0 °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  | 07/15 10:39:14 AM | Test Started                       |          | 2025-07-15                                                                                |
| 2  | 07/15 10:39:18 AM | Service Configuration test started |          | 2025-07-15                                                                                |
| 3  | 07/15 10:39:52 AM | Service Performance test started   |          | 2025-07-15                                                                                |
| 4  | 07/15 10:50:02 AM | Test Stopped                       |          |  PASS |