

# Tellabs® 7325 Ethernet Edge Switch

Gigabit carrier-class Ethernet switch for cost-effective Ethernet transport and service delivery

## Overview

The Tellabs® 7325 Ethernet Edge Switch is a carrier-class Layer 2 switch delivering business Ethernet, broadband data and Internet access services in an efficient, cost-effective platform. With 24 triple-speed (10/100/1000 Mbps) Ethernet interfaces, the Tellabs 7325 Ethernet switch supports the rapidly increasing bandwidth requirements of today's networks. The Tellabs 7325 Ethernet switch provides metro Ethernet networking with the latest Ethernet Operations, Administration and Maintenance (OAM) capabilities and comprehensive traffic management features.

The Tellabs 7325 Ethernet switch is part of the Tellabs® 7300 Metro Ethernet Switching Series and an integral component of Tellabs® Carrier Ethernet Solutions. By combining the Tellabs 7325 Ethernet switch with the Tellabs® 7100 Optical Transport System (OTS) and the Tellabs® 8800 Multiservice Router (MSR) Series, you can design, scale and deliver networks that cost effectively and reliably meet your users' varying service needs.

## Features

- Small footprint providing 24 Gbps (24G) throughput in just one Rack Unit (RU)
- Interface support for 10 Mbps through 1 Gigabit Ethernet
- Flexible deployment configurations with SFP-based interfaces
- Multiple service profiles supporting a range of service offerings
- Full Ethernet OAM capabilities for service monitoring and verification
- Integrated management promotes a seamless fit with the Tellabs 7100 OTS and Tellabs 8800 MSR series networks
- Temperature-hardened
- Redundant power supplies

The Tellabs 7325 Ethernet switch is a 24G Ethernet switch in a small 1RU shelf that supports the latest carrier class requirements for Ethernet networking. This product is an optimal solution for aggregation offices in which you want to significantly increase the bandwidth in your network at competitive price points, while also leveraging the carrier class design for operational efficiency and network reliability.

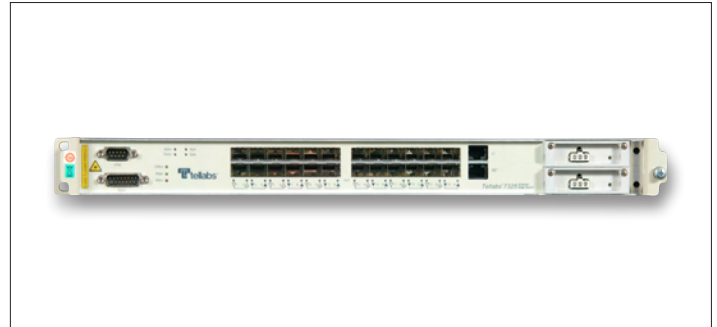


Figure 1. Tellabs® 7325 Ethernet Edge Switch

Extensive traffic management and Quality of Service (QoS) features support sophisticated services. Classification of traffic is supported with a range of Layer 2 and Layer 3 options including port, Media Access Control (MAC), Virtual Local Area Network (VLAN) ID and Differentiated Services Code Point (DSCP). Dual rate policing with tri-color marking enforces conformance to a service contract, as well as a means to manage traffic allocation in the network. Class-based queuing with strict priority and deficit-weighted round robin scheduling options also help enable you to provide the appropriate fairness algorithms for provided services.

Carrier class OAM capabilities comply with the latest industry OAM standards. The Tellabs 7325 Ethernet switch supports 802.3ah link layer OAM, 802.1ag Ethernet connectivity fault management and ITU-T Y.1731 end-to-end OAM.\* These capabilities provide rapid notification of network faults while offering a reporting mechanism to help ensure that Service Level Agreements (SLA) are being met. Network resiliency is supported via Multiple Spanning Tree Protocol (MSTP) and Rapid Spanning Tree Protocol (RSTP); link resiliency is supported with link aggregation (LAG), and VLAN protection is compliant to ITU-T G.8031.\*

The Tellabs 7325 Ethernet switch supports network scalability. With its large switch fabric, the high-density nature of the Tellabs 7325 Ethernet switch will support present and future bandwidth demands in network aggregation and distribution layers. Sophisticated traffic management and QoS capabilities support a multitude of services — mobile backhaul, xDigital Subscriber Line (xDSL), Voice over Internet Protocol (VoIP), Internet Protocol Television (IPTV), etc. — that exist in service providers' networks and help ensure that each service is given the required priority for a high-quality, reliable end user experience.

\*Supported by future release already under development

## Specifications

### Ethernet

- 24 SFP-based 10/100/1000X
- 802.1D — MAC bridging
  - STP/RSTP
- 802.1Q — VLAN Bridging
  - MSTP
- 802.1ad — Provider Bridging
  - VLAN switching/stacking
  - Q-in-Q support
- 802.3ad — Link Aggregation Control Protocol (LACP)
- 802.3ah — Link OAM
- 802.1ag — Ethernet Connectivity OAM
- Y.1731 — Service Layer OAM
- G.8031 — Ethernet Linear Protection
- Jumbo frames

### Management

- IPv4
- Secure Shell (SSH)
- In-band management VLAN
- Simple Network Management Protocol Version 2 (SNMPv2)
- Simple Network Management Protocol Version 3 (SNMPv3)
- Command Line Interface (CLI)
- Remote Monitoring (RMON) — RFC 2819
- Network Time Protocol (NTP) — RFC 1305
- Craft station GUI (Tellabs® 7191 Craft Interface)

### Traffic Management and QoS

- Layer 2 and Layer 3 traffic classification
- Single Rate Three Color Marking (srTCM) — RFC 2697
- Two Rate Three Color Marking (trTCM) — RFC 2698
- Eight classes of service per port
- Flexible scheduling — strict priority and deficit-weighted round robin

### Other

- 32K MAC addresses
- 4K VLANs
- 1K Multicast groups
- Port mirroring
- VLAN mirroring

### Security

- Access control lists
- Control protocol filtering
- User login access rights

### Service Support

- E-LINE
- Ethernet Local Area Network (ELAN)
- Metro Ethernet Forum (MEF) User Network Interface (UNI) Type 1
- MEF 9 and 14 certification

### Physical and Environmental

#### Dimensions

- Height: 1.75 in (4.5 cm)
- Width: 17.5 in (44.5 cm)
- Depth: 11.0 in (27.9 cm)
- Weight: 7.1 lbs (3.2 kg), including redundant Power Supply Units (PSUs)
- 19-inch data rack

#### Operating Temperature and Humidity

- -40° F to +149° F (-40° C to +65° C)
- 0%–95% Relative Humidity (non-condensing)
- ETSI EN 300 019-1-3

#### Storage Temperature

- -40° F to 158° F (-40° C to +70° C)
- ETSI EN 300 019-1-1

### Power Specifications

- -38V to -72V DC input power
- 100V to 240V AC

### Regulatory

- FCC Part 15, Class A
- Transportation ETSI EN 300 019-1-2
- UL 60950 1st Addition
- NEBS Level 3
- RoHS
- China RoHS
- DOT-WM\_333
- WEEE
- Ethernet UNI Type 1 (MEF 13)
- Ethernet Services Definition (MEF 6 and MEF 10.1)
- Ethernet Services Delivery (MEF 9 and MEF 14)



### North America

Tellabs  
One Tellabs Center  
1415 West Diehl Road  
Naperville, IL 60563  
U.S.A.  
+1 630 798 8800  
Fax: +1 630 798 2000

### Asia Pacific

Tellabs  
3 Anson Road  
#14-01 Springleaf Tower  
Singapore 079909  
Republic of Singapore  
+65 6215 6411  
Fax: +65 6215 6422

### Europe, Middle East & Africa

Tellabs  
Abbey Place  
24–28 Easton Street  
High Wycombe, Bucks  
HP11 1NT  
United Kingdom  
+44 870 238 4700  
Fax: +44 870 238 4851

### Latin America & Caribbean

Tellabs  
1401 N.W. 136th Avenue  
Suite 202  
Sunrise, FL 33323  
U.S.A.  
+1 954 839 2800  
Fax: +1 954 839 2828

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