

# Tellabs® 7300 Metro Ethernet Switching Series

Extend Carrier Ethernet to customer premises for any size application.

## Overview

As IP becomes the networking application protocol of choice, Ethernet is the preferred transport network protocol and interface, particularly in service delivery networks. Ethernet offers the efficiency of packet aggregation and switching. It also interfaces well to optical transport equipment.

## Feature Sets to Fit the Applications

The (MES) Tellabs® 7300 Metro Ethernet Switching (MES) feature sets are designed to address key operational challenges:

- Multiple standard automatic restoration and protection options for the high reliability required by “always on” Ethernet services
- Industry Standard Operations, Administration & Maintenance (OAM) features enable quick and easy set up, service monitoring and troubleshooting
- Flow-level traffic management and Quality of Service (QoS) enable you to offer profitable differentiated services
- Platforms scale to support large numbers of customers with provider bridging capabilities

## Benefits

Total Cost of Ownership is a major consideration for any solution, but even more so in today's tough business climate. The Tellabs 7300 MES series offers unique value with right-sized solutions for a variety of applications, helping to reduce costs and maximize profit.

- Includes a lineup of different sized aggregation switches and Network Interface Devices (NID) to flexibly deploy the optimal solution for each application
- Incorporates industry standard OAM functionality and a common management infrastructure to provide a reliable Ethernet network with the adaptability to support a variety of services
- Supports business Ethernet services, including mobile backhaul, video distribution and infrastructure applications such as Digital Subscriber Line Access Multiplexer (DSLAM) aggregation
- Offers scalability, resiliency, determinism, service assurance and monitoring while maintaining the efficiency of a packet network
- High-density design consumes little power, making the platform efficient and cost-effective
- Temperature-hardened to perform at optimum capacity, even in the most demanding environments

The Tellabs 7300 MES series is an integral component of the Tellabs® Carrier Ethernet application. You can use the versatile Tellabs 7300 MES series in combination with other Tellabs products to design, scale and deliver networks that cost-effectively and reliably meet your users' service needs:

- Build highly scalable, connection-oriented Ethernet and Carrier Ethernet networks with the Tellabs® 7100 Optical Transport System
- Extend Ethernet services from IP/MPLS core networks with the Tellabs® 8800 Multiservice Router Series
- Offer expanded Ethernet services in access networks with the Tellabs® 1000 Multiservice Access Platform
- Expand Ethernet service options in mobile backhaul networks with the Tellabs® 8600 Managed Edge System

## Tellabs® 7345 Ethernet Aggregation Switch

The Tellabs® 7345 Ethernet Aggregation Switch is a carrier-class Layer 2 switch supporting delivery of business Ethernet, broadband data and Internet access services. The Tellabs 7345 Ethernet switch supports metro Ethernet networking with the latest Ethernet OAM capabilities and comprehensive traffic management features. With 10 Gbps Ethernet interfaces, the Tellabs 7345 Ethernet switch efficiently supports the rapidly increasing bandwidth requirements of today's networks.



Tellabs® 7345 Ethernet Aggregation Switch

With up to 88 Gbps of switching capacity in a small 2 Rack Unit (RU) shelf, the Tellabs 7345 Ethernet switch supports the latest carrier-class requirements for Ethernet networking. It is an optimal solution for aggregation offices in which you want to dramatically increase the bandwidth in the network at competitive price points.

The Tellabs 7345 Ethernet switch also leverages the carrier-class design for operational efficiency and network reliability. Sophisticated traffic management and QoS capabilities support a multitude of services such as — mobile backhaul, xDigital Subscriber Line (xDSL), Voice over Internet Protocol (VoIP), Internet Protocol Television (IPTV) — and help ensure that each service receives the required priority for a high-quality, reliable end-user experience.

## Features

- Small footprint providing up to 88 Gbps throughput in only 2 RUs
- Interface support for 10 Mbps through 10 Gbps Ethernet
- Flexible deployment configurations with XFP/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 the Tellabs 8800 MSR networks
- Temperature-hardened
- Redundant power supplies
- Certified MEF 9 and MEF 14 Compliant

## Tellabs® 7325 Ethernet Edge Switch

The Tellabs® 7325 Ethernet Edge Switch is a carrier-class Layer 2 switch delivering business Ethernet, broadband data and Internet access services. 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 OAM capabilities and comprehensive traffic management features.



Tellabs® 7325 Ethernet Edge Switch

The Tellabs 7325 Ethernet switch is a 24 Gbps Ethernet switch in a small 1 RU shelf that supports the latest carrier-class requirements for Ethernet networking. It is an optimal solution for aggregation offices where you want to increase operational efficiency and network reliability while significantly increasing the network bandwidth.

## Features

- Small footprint providing 24 Gbps (24G) throughput in just 1 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 networks
- Temperature-hardened
- Redundant power supplies
- Certified MEF 9 and MEF 14 Compliant

## Tellabs® 7305 and Tellabs® 7310 Ethernet Demarcation Devices

The Tellabs® Ethernet Demarcation Devices are flexible and cost-effective NIDs that can operate as Transport NIDs or Service NIDs to provide service demarcation. They both include the standards-based performance and OAM features that you need to successfully transport and deliver Carrier Ethernet services.



Tellabs® 7305 Ethernet Demarcation Device

When functioning as Transport NIDs, the Tellabs 7305 NID and Tellabs 7310 NID act as remotely-managed media converters with carrier-grade OAM capabilities.

As Service NIDs, the Tellabs 7305 and Tellabs 7310 devices provide service mapping and traffic policing and shaping functions. The Tellabs 7305 and Tellabs 7310 NIDs support MEF-certified User-to-Network Interface (UNI) functions, including Class of Service (CoS) prioritization, granular rate-limiting and IEEE 802.1ad Provider Bridge VLAN stacking (and Q-in-Q) for service multiplexing of multiple E-LINE and E-LAN services.



Tellabs® 7310 Ethernet Demarcation Device

In both operational modes, the Tellabs NIDs conform to the latest carrier-class Ethernet OAM standards. The devices provide efficient detection and rapid isolation of potential service problems for Service Level Agreement (SLA) assurance and reduced Operational Expenditures (OpEx).

## Features

- Function as a Service NID or Transport NID
- Support IEEE 802.3ah Link OAM, IEEE 802.1ag Service OAM, and ITU-T Y.1731 performance monitoring for end-to-end service and fault monitoring
- E-Line and E-LAN service multiplexing via IEEE 802.1ad VLAN stacking (and Q-in-Q), with user configurable VLAN Ethertype
- Traffic policing and shaping with granular rate limiting using CIR and, CBS, CoS mapping IEEE 802.1p and QoS prioritization
- Temperature-hardened
- Certified MEF 9 and MEF 14 Compliant, with Tellabs 7305 NID also MEF 21 compliant
- 7305 NID (up to 1GbE):
  - SFP Gigabit and Fast Ethernet fiber transceivers for standard and Coarse Wavelength Division Multiplexing (CWDM) applications
  - Customer-facing service port available in copper RJ-45 or SFP fiber interfaces
  - Service multiplexing up to 64 EVCs
  - Dying gasp
- 7310 NID (10GbE):
  - Single Rate and Two Rate Three Color Marking (srTCM & trTCM) based rate limiting
  - 10G small form factor pluggable (XFP) 10 Gigabit Ethernet fiber transceivers for standard Dense Wavelength Division Multiplexing (DWDM) applications
  - Service multiplexing up to 512 EVCs
  - Redundant power supplies

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