

SKU: 0110-0269
Category:

Ethernet Service 10/100 (ES10/100)

The Ethernet Service 10/100 plug-in card (ES 10/100) can deliver Ethernet services to business premises, Multiple Dwelling Units (MDUs) and cell site base stations. The ES 10/100 is supported in the Tellabs 1000 Multi-service Access Platform (MSAP) and can be located in any of the multi-purpose shelf slots.

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Features

- •Supports two independent 10/100 Mbps Ethernet interfaces in a single slot
- •Provides up to 200 Mbps of bi-directional traffic per card
- •Both fiber-based and copper-based SFP options
- •Single-mode and multi-mode fiber
- •Upstream rate limiting
- •Dual memory support for upgrades

Highlights

End-to-End Ethernet

Used in conjunction with Gigabit Ethernet Transceiver (GbE222) card in transport and network uplink configurations, the Tellabs
1000 MSAP can deliver end-to-end Ethernet interfaces. Even better, these Ethernet-based interfaces can be deployed without abandoning revenue-generating legacy Time Division Multiplexing (TDM) and Special Services that are delivered simultaneously from within the same Tellabs 1000 MSAP shelf.

Ethernet, ATM and TDM Interworking

Asynchronous Transfer Mode (ATM), TDM and Ethernet interworking is achieved with ATM-to-Ethernet Connection (AEC), Ethernet-to-Ethernet Connection (EEC) and Ethernet-to-ATM Connection (EAC) supported across the Tellabs 1000 MSAP system.

Standards-Based Ethernet

Standards-based Ethernet is support with VLAN tagging per IEEE 802.1q, prioritization per IEEE 802.1p and Transparent LAN Services (TLS) when used with GbE222 plug-in card. Jumbo Ethernet frames supported up to 2,000 bytes Maximum Transmission Unit (MTU). And, Service Level Agreements (SLA) capable with Committed Information Rate (CIR) and Committed Burst Size (CBS).

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Specifications

Physical

- •Height:5.125 in (13.018 cm)
- •Width:0.563 in (1.429 cm)
- •Depth:10.5 in (26.67 cm)
- •Weight:0.5 lb (0.23 kg)

Interfaces

- •Two (2) 10/100 Mbps Ethernet

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- •Short Range 100BASE-FX optics SFP ordered separately
- •Long Range 100BASE-LX10 optics SFP ordered separately
- •Copper 100BASE-T SFP ordered separately

Power Consumption

- •Maximum power consumption:13 W
- •Typical power consumption:9.6 W

Environmentals

- •Temperature:-40Â° to +167Â° F (-40Â° to +75Â° C)
- •Relative Humidity:5âœ95% noncondensing
- •Altitude:Up to 10,000 feet

Compliance

- •GR-63-Core
- •GR-57-Core
- •GR-1089-Core
- •Restriction of Hazardous Substances Directive (RoHS)

General

- •IETF RFC 826 Address Resolution Protocol
- •IETF RFC 2684 Multiprotocol Encapsulation over ATM
- •RFC 2819 Ethernet Traffic Statistic
- •RFC 3376 Managing Multicast Forwarding
- •IEEE 802.3x Flow Control
- •IEEE 802.3ah Carrier Sense Multiple Access Collision Detection (CSMA/CD)
- •IEEE 802.3u CSMA/CD 100BASE-T
- •IEEE 802.1D Media Access Control (MAC) Bridges
- •IEEE 802.3z Gigabit Ethernet Physical Layer
- •IEEE 802.1p Priority Queues
- •IEEE 802.1Q VLAN
- •IEEE 802.3ad Link Aggregation
- •TR-101 Migration to Ethernet-based DSL Aggregation

LED Indicators

- •FAIL (red)
- •ACTIVE (green)
- •LINK 1 (green)
- •LINK 2 (green)

Management

- •Craft User Interface (CUI)
- •Tellabs Panorama Element Management System (EMS)

Software Support

- •Minimum base software FP16 and higher

Installations

- •Supported in Tellabs 1000 CBA

Ordering Information

- •ES10-100: 0110-0269

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- Short Range 100BASE-FX optics SFP: 0410-0464
- Long Range 100BASE-LX10 optics SFP: 0410-0463
- Copper 100BASE-T SFP: 0410-0465

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