



Elba 100



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Managed switch

ELBA series products are managed Ethernet switches, with fixed configuration and they are part of the line of networking solutions entirely designed and produced by Tiesse, a 100% Italian company.

FEATURES

10 ports

Elba 100 has 10 ports: 8 are Gigabit Ethernet and 2 are SFP ports up to 10 Gigabit.

Easy to configure

Elba 100 is easy to configure and thus the set-up time within the network is reduced.

KEY BENEFITS

- ⇒ Security
- ⇒ 10 GbE ports
- ⇒ Easy installation and factory pre-configuration
- ⇒ Compact in size
- ⇒ Low power consumption

APPLICATIONS

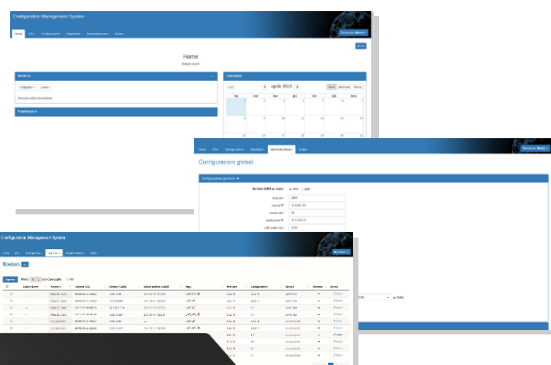
Elba 100 is particularly suitable for business scenarios

- Security
- Network performances are of primary importance.

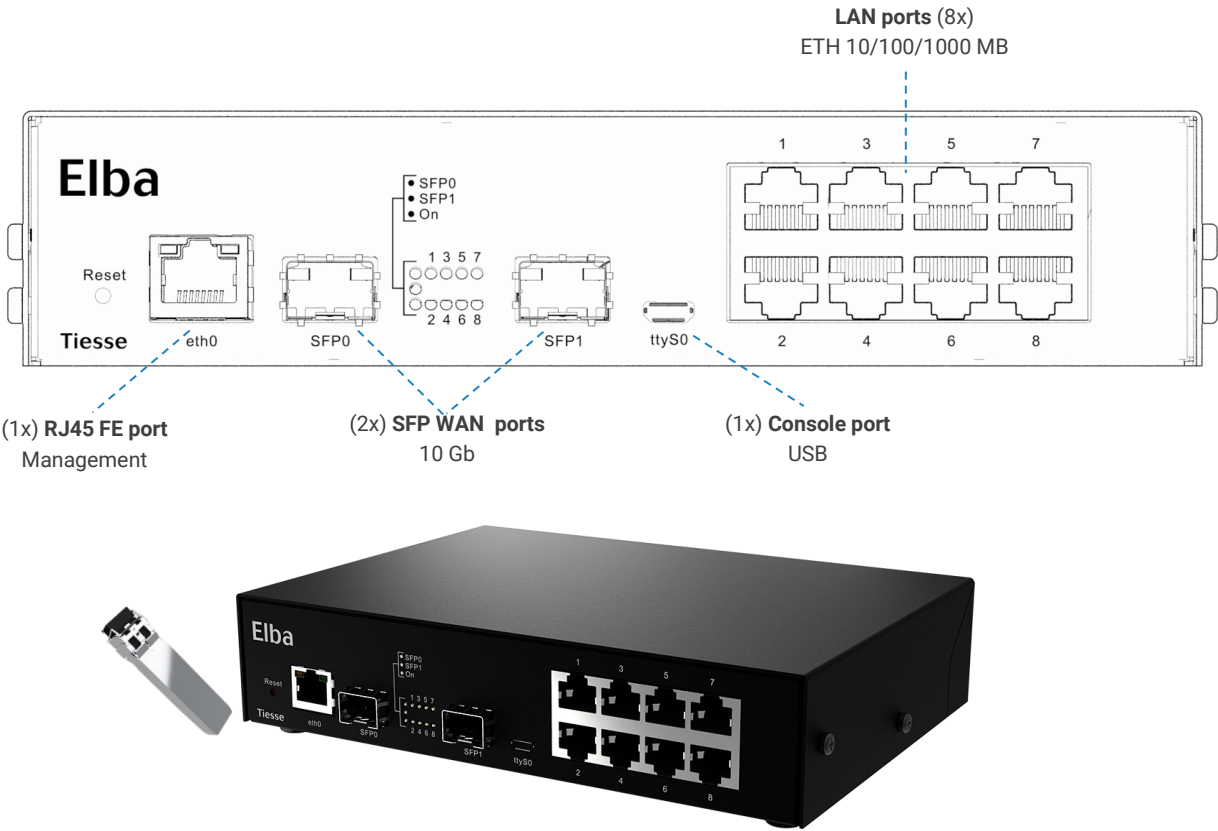
Zero Touch Provisioning

Elba 100 integrates with TNA platform for management, configuration, auto provisioning functions and monitoring.

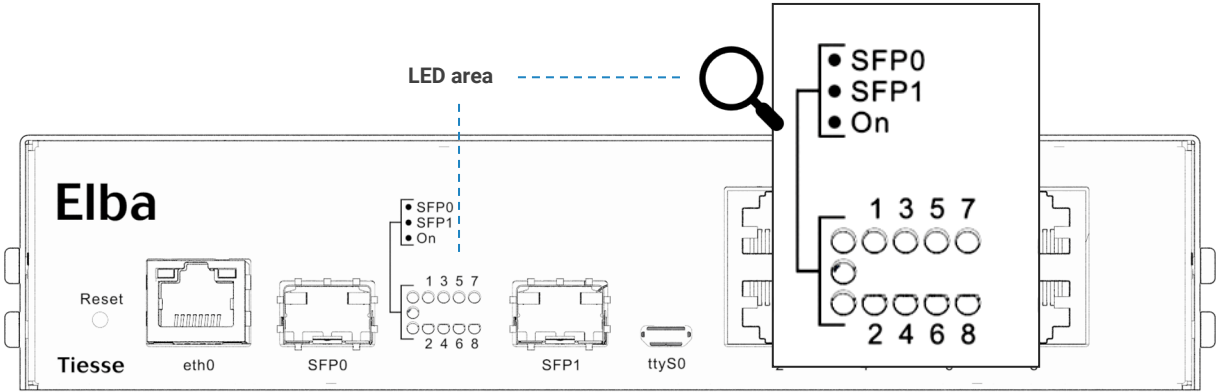
TNA (Tiesse Network Architecture) is used for the remote and automated management via WEB of the configurations and firmware releases of the installed device park.



HARDWARE interfaces



LED description



LED	Color	Description
Power	Green	– 1 x power / operative status
SFP	Green	– 1 x for each SFP port, it shows operative status
LAN	Yellow / Green	– 1 x for each ETH port, it shows operative status

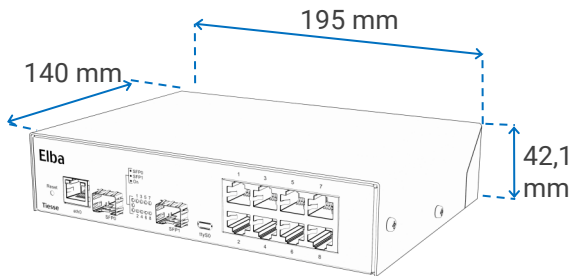


SOFTWARE

Area	Main features*
Switching Layer 2	<ul style="list-style-type: none">– Spanning tree protocol<ul style="list-style-type: none">– Support of Spanning Tree Protocol 802.1d standard– RSTP (Rapid Spanning Tree Protocol), MSTP Multiple Spanning Tree Protocol– LLDP - Support of Link Layer Discovery Protocol IEEE 802.1ab– VLAN<ul style="list-style-type: none">– VLAN tag 802.1Q, VLAN based on MAC address– VLAN for management, VLAN Q-in-Q– VLAN for voice traffic (assignment to a specific VLAN with QoS management)– Port aggregation - Support of LACP (Link Aggregation Control Protocol) IEEE 802.3ad– Unidirectional Link Detection - Support of UDLD– IGMP - Support of Internet Group Management Protocol to limit multicast traffic
QoS Quality of Service	<ul style="list-style-type: none">– Class of Service (CoS)<ul style="list-style-type: none">– Classification based on port, over VLAN priority VLAN (802.1p tag),– Differentiated Services (DiffServ)– Remarking COS– WRR - Support Weighted Round Robin– Levels - 8 hardware queues for each priority level– Traffic/speed<ul style="list-style-type: none">– Data flow control and restriction based on VLAN and port– Storm control
Administration and Management	<ul style="list-style-type: none">– CLI - Command line– Additional services - TNA autoprovisioning and monitoring

* Note: Software features depend on both version and update level of the firmware.

SYSTEM features

POWER	<ul style="list-style-type: none">– External Desktop 12 V (internal Vdc 2.5 A)– Power switch ON/OFF	EXTERNAL features	
FORM FACTOR	<ul style="list-style-type: none">– Desktop	MATERIAL	<ul style="list-style-type: none">– Metal chassis
FANS	<ul style="list-style-type: none">– Fanless	COLOR	<ul style="list-style-type: none">– black
ENVIRONMENT	<ul style="list-style-type: none">– Operating temperature: –5°C / +55° C– Storage temperature: –40°C / +70°C– Max relative operating humidity : 93% (non condensing)	SIZE	
RESET	<ul style="list-style-type: none">– Reset and restore factory functions		
CONSUMPTION	<ul style="list-style-type: none">– < 20 W Full Configuration		
PROCESSOR	<ul style="list-style-type: none">– ARM Cortex-A7 500 MHz		
ADD-ONS	<ul style="list-style-type: none">– Please, refer to the add-ons datasheets for all supported SFP accessories and modules, depending on the product series. Download it at www.tiesse.com		

Tiesse

Innovation made in Italy®

Tiesse is a 100% Italian company which has more than 20 years of expertise in designing, developing, and manufacturing M2M/IoT and network devices. The products series **IMOLA**, **LIPARI** and **LEVANTO**, which are innovative, competitive and certified, are present in the largest distributed national networks (from gas stations to large retailers, insurance companies and banks) as well as in the largest networks of the main gaming operators and energy sector.



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