

Imola LX Router series



Imola LX 0272-IKF







Imola LX 0272-IKF











eVDSL and fiber router

Imola LX 0272-IKF is part of the IMOLA series of products, routers certified and used in the networks of major telecom operators. It is a highly innovative line of routers for ultrabroadband and fiber data networks.

Imola LX 0272-IKF is equipped with 4 Gigabit Ethernet ports, 1 fiber port (SFP cage) for connectivity including GPON, 1 xDSL port supporting enhanced VDSL profile (35b vPlus), 1 Gigabit Ethernet (copper) WAN port. It offers advanced QoS (Quality of Service), security and routing features.

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- ⇒ Routing
- ⇒ Switching
- \Rightarrow QoS
- \Rightarrow Security

KEY FACTORS

- ⇒ Security
- ⇒ Easy installation and factory preconfigurations
- ⇒ Remote management and provisioning
- ⇒ Fiber and GPON connectivity

APPLICATION

- ⇒ Data services for small and medium-sized enterprises
- ⇒ Banking and Insurance
- ⇒ Retail



Next-generation eVDSL networks

In our router supports next-generation networks (NGN), ensuring:

- Support for all VDSL2 profiles: 8 MHz up to 35 MHz in accordance with ITU-T G993.2 Annex Q standard (35b or Vplus profiles), capable of aggregate rates up to 400 Mbs)
- G.Vector support (ITU-T G.993.5)
- Compliance with ITU-T G.998.4 G.INP standard (protection from impulsive noise)
- Backward compatibility up to ADSL



FIBER ACCESS & GPON CONNECTIONS

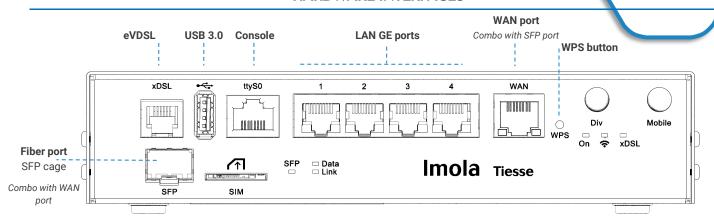
WAN access via fiber:

- GPON connections support
- Support for multiple SFP modules (transceivers)
 - Maximum data rate 1000 Mbps (SX, BX, LX, ZX)
 - Supported connectors: LC simplex, LC duplex

Imola LX 0272-IKF - eVDSL and Fiber router

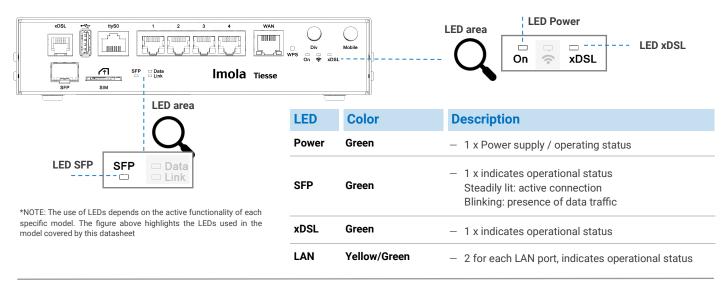
Connectivity for ultrabroadband data networks and fiber optics.

HARDWARE INTERFACES



Port	Description	Details		
LAN	– GE	 4 Ethernet 10/100/1000 Mbps ports and Switch, RJ-45 auto sensing connector 		
WAN	– GE	- 1 GE 10/100/1000 Mbps port, RJ45 (label WAN) connector, combo with the SFP port		
	– Fibra	 1 SFP cage port for fiber and GPON connection - combo with WAN GE port (SFP transceiver module not included) 		
	- ADSL 2/2+ - VDSL - eVDSL	1 port with RJ-11 connector, Full rate ADSL2/2+ / VDSL2		
		ADSL2/2+		
		 Downstream data rate up to 24 Mbps and upstream data rate up to 3.5 Mbps 		
		 Conformity to Standard G.992.1 annex A, B, C & I, G.992.2-g.Lite, G.992.3 annex A, B, I, J, M, G.992.4-g.Lite.bis, G.992.5 annex A, B, C, I, J, M, ANSI T1.413 issue2, ETSI TS 388 		
		VDSL2		
		 Support for all VDSL2 profiles: 8 MHz up to 30 MHz ITU-T G993.2 		
		 Complies with the G.Vector standard (ITU-T G.993.5) 		
		- Compliant with ITU-T G.998.4 G.INP standard		
		Compatible with ADSL2 (backward compatibility)		
		eVDSL		
		 35MHz ITU-T G993.2 Annex Q profile support (35b or Vplus profiles) with aggregate rates up to 400 Mbps 		
Console	- RJ45	- 1 port, RJ45 connector		
USB		- USB 3.0 port		

LED DESCRIPTION





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SOFTWARE

* Note: Software functionality depends on the version and upgrade level of the product firmware

Area	Main features
Networking	TCP-UDP IPv4, IPv6 supportICMP
Layer 2 features	 LAN Bridging VLAN on802.1q LAN interfaces in Access mode, Trunk, native VLAN and Hybrid mode Layer 2 Protocol Tunneling (L2PT) 802.1Q-in-802-1Q
Routing & multicast	 Static, Policy routing, RIPv1, RIPv2 BGP-4, BGP-4+ OSPFv2 VRF Lite, Routing redistribution and tagging VRRP (Virtual Routing Redundancy Protocol) with IPv4-IPv6 authentication IGMP v1-v2-v3, IGMP snooping, IGMP proxying Routing Multicast with sparse-mode PIMv2 and PIMv2 dense-mode, MSDP IEEE 802.1d (Spanning Tree Protocol)
QoS	 Traffic classification based on source IP, destination IP, protocols (UDP, ICMP,TCP, etc.) and ports, and their combinations, on application recognition, on IP Precedence and DSCP DiffServ Layer 2 Remarking COS QoS on ATM classes Shaping with guaranteed allocated bandwidth and redistribution of excess bandwidth Committed Access Rate and Multicast rate limitation Traffic prioritization mechanisms, definition of an arbitrary number of priority classes IEEE 802.3ad link aggregation
Security	 NAT/PAT ACLs, Stateful Firewall IP Filtering SSL Tunnelling L2TP PPTP GRE Tunnelling VPN with IPSEC 3 DES Encryption
Services	 DHCP client, DHCP server with antispoofing functions Intelligent DNS proxy, local and remote Traceroute NTP Client and Server support Easy VPN
Management and configuration	 SNMP v1, SNMPv2, SNMPv3 Telnet server with multiple concurrent sessions SSH server with multiple concurrent sessions (SSHv2) IP SLA with support for: One Way Delay, Round Trip Delay, Jitter, Packet Loss SAA (Service Assurance Agent) Fault management Syslog /Trap PAP/CHAP user authentication, RADIUS, TACACS+ Tracking for backup management, commands and event scheduling Software update via TFTP and FTP Configuration via command Line Interface (CLI), Text/Menu oriented and Telnet TNA (Tiesse Network Architecture) suite for auto-provisioning and automated remote management Ability to maintain an arbitrary number of configurations



Connectivity for ultrabroadband data networks and fiber optics.

ZERO TOUCH PROVISIONING

Imola LX 0272-IKF routers are integrated into the **Tiesse Network Architecture (TNA) suite.**

TNA is the modular software suite that enables Zero Touch Provisioning network architecture,

including monitoring, remote and automated web-based management of configurations and firmware releases of the installed fleet; enables traffic engineering, network overlays, and many other features.

A complete datasheet of the solution is available at www.tiesse.com.



SYSTEM FEATURES

POWER	12V AC/DC AdapterPulsante ON/OFF
CONSUMPTION	- < 20 W Full Configuration
FANS	- Fanless
PROCESSOR	 RISC Network processor
MEMORY	RAM: 256 MB - DDR3FLASH: 256 MB
ENVIRONMENT	 Operating temperature: -5°C / +50° C Storage temperature: -40°C / +70°C Maximum relative operating humidity: 93% (non-condensing)

EXTERNAL FEATURES MATERIAL - Metal chassis **COLOR** - Black **FORM** Desktop **FACTOR**

195 mm 140 mm 42.1

SIZE

Add-ons

Tiesse products offer a range of optional accessories, available according to the specifications of each model; these include omnidirectional and directional antennas for outdoor use, mounts for various mounting options, and SFP transceiver modules.

Complete documentation on supported accessories can be downloaded directly from www.tiesse.com.



Technical support

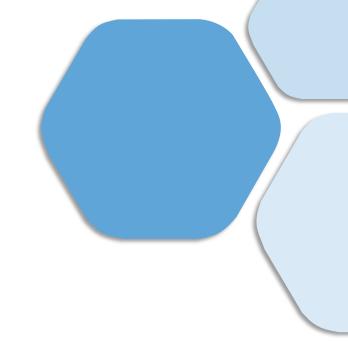
On line support on:



Supporto.tiesse.com: portal technical documentation, installation instructions, software updates, and ways to request technical support.

Wiki.tiesse.com: dedicated site software documentation; includes user manuals, first-time user guides, case studies, tutorials, and other useful resources for using the products.







Tiesse is a totally Italian company with more than 25 years of experience in the design, development and production of network equipment and IoT devices, suitable for use in mission-critical and industrial scenarios. Tiesse's most successful series, Imola, Lipari and Levanto, are innovative, competitive and certified, and are present in the networks of the major telecommunications operators, in the energy sector, large-scale distribution and vertical sectors, both in the Italian and foreign markets.

Further information on Tiesse solutions can be found on the company website www.tiesse.com.



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