

Router Imola LX series



Imola LX 0272-20







Datasheet

Imola LX 0272-20











VoIP IAD - eVDSL Router

Imola LX 0272-20 is part of the IMOLA products series, which are certified and used by the main telecommunication operators in their networks.

These model are a highly innovative series of routers/IADs for ultra-broadband data and voice networks.

Imola LX 0272-20 routers allow you to make up to 2 telephone calls (fax and voice) simultaneously over IP network, they are equipped with 4 Giga Ethernet ports and 1 xDSL port that supports the enhanced VDSL profile (35b vPlus).

Imola LX 0272-20 offers advanced features of Quality of Service (QoS), security and routing.

FEATURES

Imola LX 0272-20 has all the features of:

- Routing
- Switching
- QoS
- VolP

• Zero Touch Provisioning

KEY FACTORS

- ⇒ Security
- ⇒ Easy installation and factory pre-configuration
- Remote management and provisioning
- ⇒ Zero Touch Provisioning

APPLICATIONS

- ⇒ Voice and data services for small and medium enterprises
- ⇒ Branches and remote offices of banks and insurance companies
- ⇒ Retail

eVDSL - New Generation network

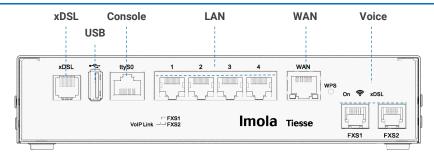
Support of the new generation networks (NGN) and ensuring:

- Support for VDSL2 profiles: from 8 MHz up to 35 MHz, in accordance with ITU-T G993.2 Annex Q standard (35b profiles or Vplus) capable of aggregating rates up to 400 Mbps
- G.Vector standard-compliant (ITU-T G.993.5)
- ITU-T G.998.4G.INP standard-compliant (impulse noise protection)
- ADSL2 compatible (backward compatibility)



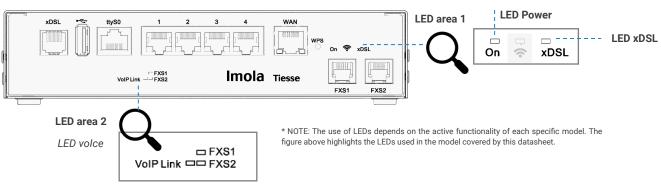


HARDWARE INTERFACES



Port	Description	Details
LAN	- GE	 4 10/100/1000 Mbps Ethernet ports switch, RJ45 auto sensing connectors
WAN	- GE-WAN	- 1 Ethernet WAN port (label WAN)
VOCE	- FXS	- 2 FXS, ports, RJ11 connectors
CONSOLE	- RJ45	 1 console port, RJ45 connector
USB		- 1 USB 3.0 port

LED DESCRIPTION



LED	Color	Description
Power	Green	- 1 x power / operative status
xDSL	Green	- 1 x operative status
LAN	Green/Yellow	- 2 x for each Ethernet LAN port, tells operative status
FXS1 FXS2	Green	- 1 x for each VoIP port, tells operative status
VolP	Yellow	- 1 x operational status of voice line connection

ZERO TOUCH PROVISIONING

Imola LX 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.





SOFTWARE

* Nota: le funzionalità software dipendono dalla versione e dal livello di aggiornamento del firmware del prodotto.

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Area	Caratteristiche principali	
	- TCP-UDP IPv4	- IPv6
NETWORKING	- ICMP	VUVLAN and Hybrid mode
	ICIVII	VEAR and Hybrid mode
	 LAN Bridging 	 Layer 2 Protocol Tunneling (L2PT)
LAYER 2 FEATURES	 VLAN support on LAN interface 802.1q in Access 	- 802.1Q-in-802-1Q
	mode, Trunk, native VLAN and Hybrid mode	002.1Q III-002-1Q
	Static, Policy routing, RIPv1, RIPv2	
	- BGP-4, BGP-4+	 IGMP v1-v2-v3, IGMP snooping, IGMP proxying
DOLLTING & MULTICACT	- OSPFv2	Multicast routing with PIMv2 sparse-mode and
ROUTING & MULTICAST	VRF Lite, Routing redistribution and tagging	PIMv2 dense-mode, MSDP
	VRRP (Virtual Routing Redundancy Protocol) with	 IEEE 802.1d (Spanning Tree Protocol)
	IPv4-IPv6 authentication	
	Traffic classification based on source IP, on a	
	combination of source IP, destination IP, protocol	 Shaping with guaranteed allocated bandwith and redistribution of bandwith excess
	(UDP, ICMP, TCP, etc) ports, application recognition, IP Precedence and DSCP	Committed Access Rate e Multicast rate Limit
QOS	- DiffServ	Mechanisms of traffic prioritization, ability to define
	Layer 2 Remarking COS	an arbitrary number of priority classes
	QoS on ATM class	 IEEE 802.3ad link aggregation
	QOS ON ATIVI CIUSS	
	- NAT/PAT	- L2TP
SECURITY	 ACLs, Stateful Firewall 	- PPTP
SECORITI	 IP Filtering 	 GRE Tunnelling
	 SSL Tunnelling 	 VPN with IPSEC 3 DES Encryption
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SERVICES	DHCP client, DHCP server with antispoofing functions	 NTP Client and Server support
SERVICES	Intelligent DNS Proxy, local and remote	Easy VPN
	- Traceroute	
	- SNMP v1, SNMPv2, SNMPv3	
	 Telnet server with multiple simultaneous sessions 	Tracking for backup management, commands and
	SSH server with multiple simultaneous sessions	scheduled events
	(SSHv2)	Software update via TFTP and FTP Configuration via command Line Interface (CLI)
MANAGEMENT AND CONFIGURATION	 IP SLA support for: One Way Delay, Round Trip Delay, Jitter. Packet Loss 	 Configuration via command Line Interface (CLI), Text/Menu oriented and Telnet
	SAA (Service Assurance Agent)	TNA (Tiesse Network Architecture) suite for auto-
	- Fault management Syslog /Trap	provisioning and remote automated management
	User authentication with PAP/CHAP, RADIUS,	 Management of an arbitrary number of configurations
	TACACS+	
	Conforme Compliant to the SIP standards: RFC 2327	OOB DTMF tone management, in-band and
	SDP, RFC 2617, RFC 3261 SIP, RFC 2833, RFC 2976,	announcing tone
	RFC 3262, RFC 3264, RFC 3265, RFC 3311, RFC 3323 ,RFC 3325, RFC 3326, RFC 3398, RFC 3578, RFC	 Unconditional call forwarding
VOICE	3842, RFC 3960, RFC 4566	 On Hold Call Capability
	 Registration features SIP, SIP UAC, registration 	Fax T.38 Support
	deletion	 Interoperability with PBX
	 Codec support and negotiation 	 Line Hunting



HARDWARE FEATURES

POWER	12V AC/DC AdapterON/OFF button
CONSUMPTION	- < 20 W Full Configuration
FANS	- Fanless
PROCESSOR	 RISC Network processor
MEMORY	– 256 MB - DDR3
FLASH MEMORY	- 256 MB
ENVIRONMENT	 Operating temperature: -5°C / +50° C Storage temperature: -40°C / +70°C Max operating humidity: 93% (non condensing)

EXTERNAL FEATURES			
MATERIAL	- Metallic chassis		
COLOR	- Black		
FORM FACTOR	– Desktop		

EVIEDNIAL FEATURES

SIZE



STANDARD WEIGH 1010 gr ±10%

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.

Supporto tecnico

On line support on:

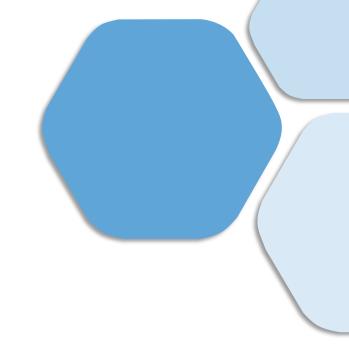


Supporto.tiesse.com: portal with technical documentation, installation instructions, software updates, and ways to request technical support.

Wiki.tiesse.com: site dedicated to 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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