Tiesse

Innovation made in Italy®

Imola

Div   Mobile   xDSL   On   WPS   WAN   4   3   2   1   ttyS0   xDSL

Imola LX
0272-IKW-V

GE

VDSL

2.4 GHz

Imola LX
0272-IKW-V

Router ultrabroadband
VDSL2 e Wi-Fi

The **Imola LX 0272-IKW-V** series routers are part of the evolution of the IMOLA line, which are certified routers used in the networks of the main telecommunications operators.

Thanks to the ADSL2 / VDSL2 and WAN Giga Ethernet connectivity, they are particularly suitable for business applications where security, service continuity and network performance are of primary importance.

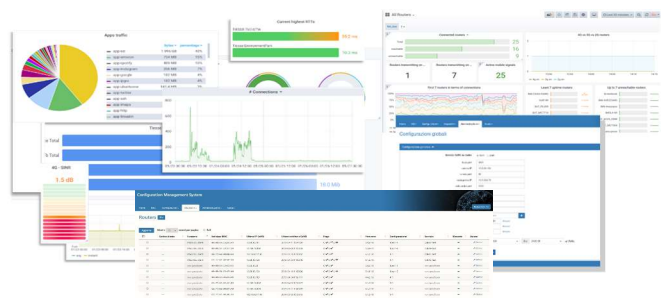| FEATURES	KEY BENEFITS	APPLICATIONS
⇒ Routing	⇒ Security	⇒ Enterprise WAN network secure access
⇒ Switching	⇒ Scalability	⇒ Branches and remote offices of Banks and Insurance companies
⇒ Multi fail-over	⇒ Easy installation and factory pre-configuration	⇒ Lottery
⇒ QoS	⇒ Zero touch provisioning	⇒ Gaming networks
		⇒ Transport
		⇒ Backup for broadband networks

ZERO TOUCH PROVISIONING

Imola LX 0272-IKF routers are integrated into the **Tiesse Network Architecture (TNA) suite**.
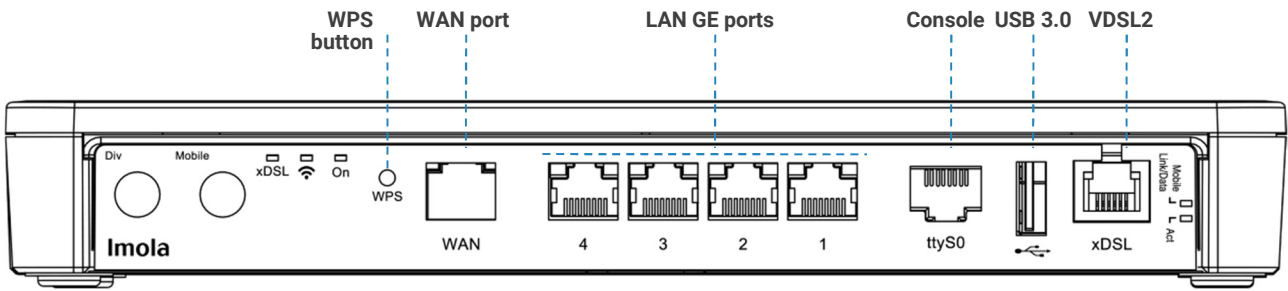
TNA is the modular software suite that enables Zero Touch Provisioning network architecture, including monitoring, remote and automated web-based management of configurations and firmware releases of the installed fleet; enables traffic engineering, network overlays, and many other features.

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

Tiesse | Router series datasheet

INTERFACCE HARDWARE

Port	Description	Details
LAN	— **GE**	— 4 ports 10/100/1000 Mbps, RJ45 connector
	— **Wi-Fi**	— 1 port 802.11 b/g/n port (2.4 GHz) 2x2
WAN	— **GE**	— 1 port 10/100/1000 Mbps, RJ-45 connector (label WAN)
	— **ADSL 2/2+** — **VDSL2**	1 port with RJ11 connector, Full rate ADSL2/2+ / VDSL2
		ADSL2/2+ — Downstream data rate up to 24 Mbps — Upstream data rate up to 3.5 Mbp — Standards-compliant 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 ADSL-over-ISDN, ITU T-l361, ITU T-I.363.5, ITU T-I.432, ITU T-I610, ITU T-I731
		VDSL2 — Support for all VDSL2 profiles: 8 MHz to 30 MHz ITU-T G993.2 — G.Vector standard-compliant (ITU-T G.993.5) — ITU-T G.998.4 G.INP standard-compliant — ADSL2 compatible (backward compatibility)
CONSOLE	— **RJ45**	— 1 port with RJ45 connector
USB		— 1 port USB 3.0

VDSL2 - New Generation network

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

- Support for VDSL2 profiles: 8 MHz to 30 MHz ITU-T G993.2
- G.Vector standard conformity (ITU-T G.993.5)
- ITU-T G.998.4 G.INP standard conformity (impulse noise protection)
- ADSL2 compatible (backward compatibility)

LEDS DESCRIPTION

LED area 2

LED area

* NOTE: The use of LEDs depends on the active functionality of each specific model. The figure above highlights the LEDs used in the model covered by this datasheet.

LED	Color	Position	Description
Power	**Green**	— Led area 1	— 1 x power / operative statur
Wi-Fi	**Green**	— Led area 1	— 1 x operative statur
	Green	— Led area 2	— 1 x authentication status (Act)
xDSL	**Verde**	— Led area 1	— 1 x operative statur
LAN	**Yellow / Green**		— 2 x each port, for operative statur

SOFTWARE

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

Area	Caratteristiche principali	
NETWORKING	— TCP-UDP IPv4	— IPv6
LAYER 2 FEATURES	— LAN Bridging — VLAN support on LAN interface 802.1q 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 — Multicast routing with PIMv2 sparse-mode and PIMv2 dense-mode, MSDP — IEEE 802.1d (Spanning Tree Protocol)
QOS	— Traffic classification based upon source IP, based on a combination of source IP, destination IP, protocol (UDP, ICMP, TCP, etc), upon DSCP/IP precedence, ToS or Port — DiffServ — CoS on VLAN — QoS on classi ATM	— Shaping with guaranteed allocated bandwith and redistribution of bandwith excess — Committed Access Rate e Multicast rate Limit — Mechanisms of traffic prioritization, ability to define an arbitrary number of priority classes — IEEE 802.3ad link aggregation
SECURITY	— NAT/PAT — ACLs, Stateful Firewall — SSL Tunnelling — L2TP	— GRE Tunnelling with keep alive and key sequence numbering (radio mobile network optimization) — VPN con IPSEC/ESP o IPSEC/AH IKEv1/IKEv2 — 3 DES Encryption
SERVICES	— DHCP client, DHCP server with antispoofing functions, DHCP Layer Discovery Protocol IEEE 802.1ab, DHCP relay — Intelligent DNS Proxy, both local and remote — Traceroute	— NTP Client and Server support — Easy VPN — DDns
MANAGEMENT AND CONFIGURATION	— SNMP v1, SNMPv2, SNMPv3 — Telnet server with multiple simultaneous sessions — SSH server with multiple simultaneous sessions (SSHv2) — Netflow — IP SLA support for: One Way Delay, Round Trip Delay, Jitter, Packet Loss — SAA (Service Assurance Agent) — Fault management Syslog /Trap	— Radius Support, TACACS+ — Tracking for backup management, commands and events scheduled — Software update via TFTP, FTP, HTTP, HTTPS, SCP — Configuration via command Line Interface (CLI), Text/Menu oriented and Telnet — TNA (Tiesse Network Architecture) suite per auto-provisioning e gestione automatizzata remota — Possibility to keep an arbitrary number of configuration

ONE ROUTER, THREE POSITIONING OPTIONS

On a horizontal surface, such as your desktop, for example

Vertical positioning, using its bracket

Wall mounting, using the same bracket of the vertical positioning

Tiesse | Router series datasheet

SYSTEM FEATURES

POWER
- 12V AC/DC Adapter
- ON/OFF button

CONSUMPTION
- < 20 W Full Configuration

FANS
- Fanless

PROCESSOR
- RISC Network processor

MEMORY
- RAM: 256 MB - DDR3
- FLASH: 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
- Plastic chassis

COLOR
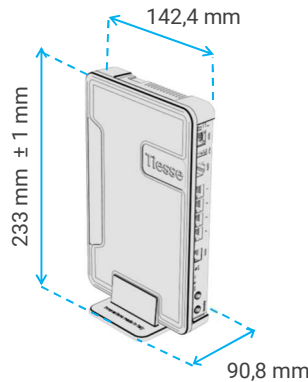- Black

FORM FACTOR
- Desktop

SIZE

Desktop / plane
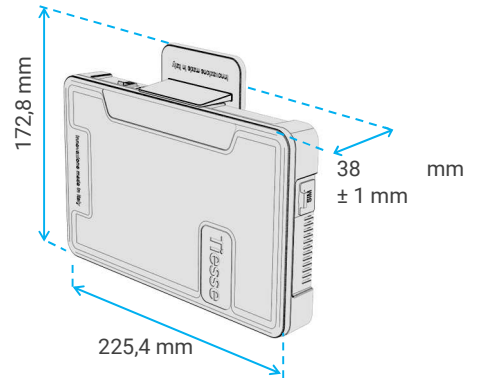On horizontal surface, without bracket.

225,4 mm

29,7 mm
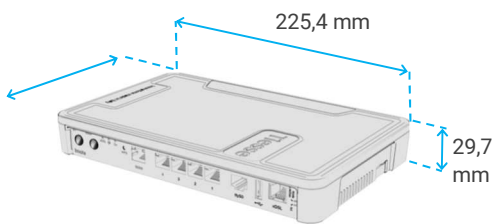
STANDARD WEIGHT 500 gr ± 10%

Desktop vertical mounting
with bracket

142,4 mm

233 mm ± 1 mm

90,8 mm

Wall mounting
with bracket
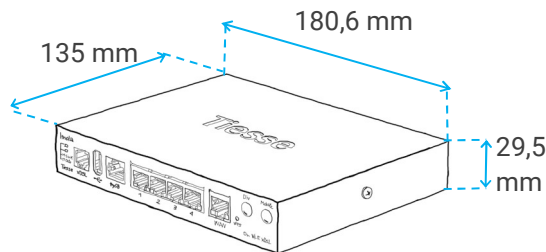

172,8 mm

38 ± 1 mm

mm

225,4 mm

METALLIC CHASSIS VARIANT

Metal chassis variant available (for mass production or industrial projects) with extended operating temperature range (-25°/+70°).

STANDARD WEIGHT 660 gr ± 30

180,6 mm

135 mm

29,5 mm

TECHNICAL SUPPORT

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 | Router series datasheet

Tiesse
Innovation made in Italy®

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.
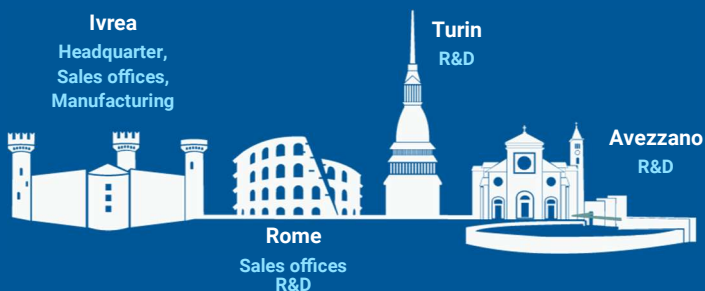
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Ver. ENG 141124