

IAD Wireless VoIP & EVDSL Router

Wireless VoIP broadband router

Tiesse is an Italian leading company focused on innovative network devices, broadband and mobile routers and M2M / IoT enabling appliances. With experiences lasting more than 20 years, Tiesse designs, develops and manufactures all proprietary equipments in its Italian location.

All product series (**IMOLA**, **LIPARI** and **LEVANTO**) are innovative, competitive and telco certified.

Tiesse devices are present in the largest distributed networks at national level: from petrol stations to retailers, insurances, banks and financial organizations.



Imola 0272-44-IKW-IKF



Imola 0272-44-IK2W-IKF



Imola 5272-44-IKW-IKF



Imola 5272-44-IK2W-IKF

Imola x272-44-IKxW-IKF

It is an innovative series of highly innovative routers / IAD for voice and data ultrabroadband and fiber networks.

Imola x272-44-IKxW-IKF integrates 4 FXS ports, 4 BRI ports and 1 FXO port.

1 fiber port (SFP cage) for GPON and Wi-Fi dual band connectivity completes the standard equipment.

Imola x272-44-IKxW-IKF supports VDSL enhanced profile (35b vPlus) and allows to make simultaneously up to eight phone calls (fax and voice) on IP network.

It offers advanced QoS (Quality of Service), security and routing features.

x272-44-IKW-IKF x272-44-IK2W-IKF

Models

Imola	0272-44-IKW-IKF	5272-44-IKW-IKF	0272-44-IK2W-IKF	5272-44-IK2W-IKF
1 x RJ45 console port	•	•	•	•
1 x WLAN 802.11 b/g/n port	•	•	•	•
1 x WLAN 802.11 a/c port			•	•
10/100/1000 Mb Switch Ethernet port	4	4	4	4
eth0 WAN port	1	1	1	1
Adsl 2/2+ / EVDSL	•	•	•	•
Phone line	4 x FXS - 1 x FXO 2 x BRI NT/TE 2 x BRI NT	4 x FXS - 1 x FXO 2 x BRI NT/TE 2 x BRI NT	4 x FXS - 1 x FXO 2 x BRI NT/TE 2 x BRI NT	4 x FXS - 1 x FXO 2 x BRI NT/TE 2 x BRI NT
Fiber SFP port (cage)	•	•	•	•
4G		•		•
USB 3.0	•	•	•	•

Interfaces

LAN	GE	5 x 10/100/1000 Mbps RJ-45 auto sensing ports
	Wi-Fi	1 x 802.11 b/g/n port (2.4 GHz) 2x2, 1 x 802.11 a/c (5 GHz) 3x3
WAN	GE-WAN	1 x 10/100/1000 Mbps RJ45 may be used as WAN (the one with label WAN)
		1 x RJ-11 port, Full rate ADSL 2/2+/VDSL2
	ADSL 2/2+	<u>ADSL2/2+</u> 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
	VDSL2	<u>VDSL2</u> Support for all VDSL2: 8MHz to 30MHz ITU-T G993.2 profiles G.Vector standard-compliant (ITU-T G.993.5) ITU-T G.998.4 G.INP standard-compliant ADSL2 compatible (backward compatibility)
Fiber	EVDSL	<u>EVDSL2</u> Supports 35MHz ITU-T G993.2 Annex Q (profilo 35b o Vplus) profiles with aggregate rates up to 400Mbps
	SFP cage	Active and passive fiber (GPON)
Voce	FXS	4 x RJ-11 port
	BRI	2 x BRI NT RJ 45 - 2 x BRI NT/TE RJ 45
	FXO	1 x RJ-11 port
Console		1 x RJ-45 port
USB		USB 3.0

x272-44-IKW-IKF x272-44-IK2W-IKF

Radio mobile port

GSM / GPRS / EDGE	Frequency band: 900 / 1800 / 1900 MHz GPRS multislot 10, EDGE multislot 12
UMTS / HSDPA / HSUPA / HSPA+	Frequency band: 900 / 2100 Mhz HSDPA data rates up to category 20 HSUPA data rates up to category 6
DC-HSPA+	DC-HSPA+ (42 Mbps in DL)
LTE	Frequency band: 800/900/1800/2100/2600 Mhz Data rates (category 3, MIMO)* Peak data rates 100 Mbps DL, 50 Mbps UL (actual throughput dependson network configuration, bandwidth assigned to the UE category, the number of users and RF signal conditions) WCDMA 900/2100 * Variation with category 6 available on request



Imola 5272-44-IKW-IKF

4G Antennas

- ⇒ Multiple Input / Multiple Output (MIMO) support included
- ⇒ 2 high gain removable antennas (SMA male)
- ⇒ Outdoor high gain variation also available (omnidirectional and directional)

Radio mobile transmission power

LTE	Band 1,3,7,8	22dBm
	Band 20	23 dBm
UMTS	Band 1,8	23 dBm
GSM / EDGE	GSM900	32 dBm iGMSK mode 27 dBm 8PSK mode
	DCS1800CS	29 dBm GMSK mode
	PCS1900CS	29 dBm GMSK mode 26 dBm i8PSK mode

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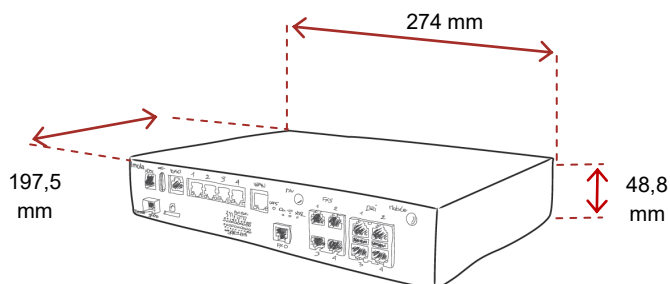
Protocols

IP Features	<p>TCP-UDP IPv4, ICMP</p> <p>IPv6 support</p> <p>Lan Bridging</p> <p>VLAN support on LAN interface 802.1q in Access mode, Trunk, native VLAN and Hybrid mode</p> <p>IEEE 802.1d (Spanning Tree Protocol)</p>
Routing & Multicast	<p>Static, Policy routing, RIPv1, RIPv2, BGP-4, BGP-4+, OSPFv2</p> <p>VRF Lite, Routing redistribution and tagging</p> <p>VRRP (Virtual Routing Redundancy Protocol) with IPv4 - IPv6 authentication</p> <p>IGMP v1 - v2 - v3, IGMP snooping, IGMP proxying</p> <p>Multicast routing with PIMv2 sparse-mode and PIMv2 dense-mode, MSDP</p>
QoS	<p>Traffic classification based upon source IP, based on a combination of source IP, destination IP, protocols UDP, ICMP, TCP, etc., upon DSCP/IP precedence, ToS or Port</p> <p>DiffServ, CoS on VLAN , QoS on ATM class</p> <p>Shaping with guaranteed allocated bandwidth and redistribution of bandwidth excess</p> <p>Committed Access Rate and Multicast rate Limit</p> <p>Mechanisms of traffic prioritization, ability to define an arbitrary number of priority classes</p>
Security E VPN	<p>NAT/PAT</p> <p>ACLs, Stateful Firewall, IP Filtering</p> <p>SSL Tunnelling, GRE Tunnelling</p> <p>VPN with IPsec, 3 DES Encryption, L2TP, PPTP</p>
Voice	<p>SIP standard compliance: RFC 2327 SDP, RFC 2617 , RFC 3261 SIP, RFC 2833, RFC 2976, RFC 3262, RFC 3264, RFC 3265, RFC 3311, RFC 3323 ,RFC 3325, RFC 3326, RFC 3398, RFC 3578, RFC 3842, RFC 3960, RFC 4566</p> <p>SIP registration features, SIP UAC, deregistration, GNR registration</p> <p>Codec support and negotiation</p> <p>Tones handling OOB DTMF and in-band tone and announcements</p> <p>Call forwarding unconditional both no answer and busy user</p> <p>Call waiting / hold features</p> <p>T.38 fax support</p> <p>Interworking with PBX</p> <p>Voice Fallback on POTS (FXO or BRI) interfaces</p>
Management and Configuration	<p>Full support of SNMP v1, SNMPv2, SNMPv3</p> <p>Telnet server with multiple simultaneous sessions , SSH server with multiple simultaneous sessions</p> <p>IP SLA support for: One-Way Delay, Round Trip Delay, Jitter, Packet Loss</p> <p>SAA (Service Assurance Agent), TR-69</p> <p>Fault management Syslog /Trap</p> <p>User authentication PAP / CHAP, Radius Support TACACS+</p> <p>Wi-Fi with WPA2, Multiple SSID</p> <p>Tracking for backup management, commands and events scheduled</p> <p>Software update via TFTP and FTP</p> <p>Configuration via command Line Interface (CLI), Text/Menu oriented and Telnet, Web configuration interface</p> <p>Possibility to keep an arbitrary number of configuration</p>
Services	<p>DHCP client, DHCP server with anti-spoofing functions</p> <p>Intelligent DNS Proxy, local and remote</p> <p>Traceroute</p> <p>NTP Client and Server support</p> <p>Easy VPN</p>

x272-44-IKW-IKF x272-44-IK2W-IKF

Hardware Features

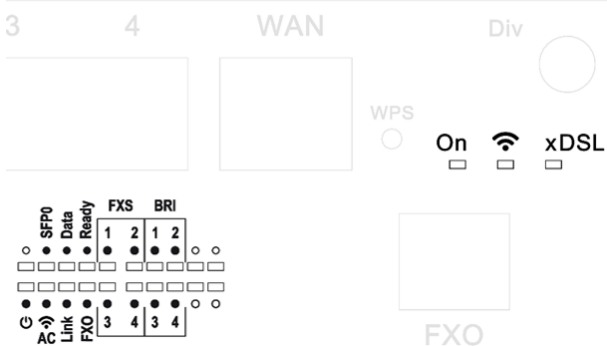
Processor	RISC Network processor
DRAM	256 MB - DDR3
Flash Memory	256 MB
WPS	button
Standard weight	1900 gr ±10%

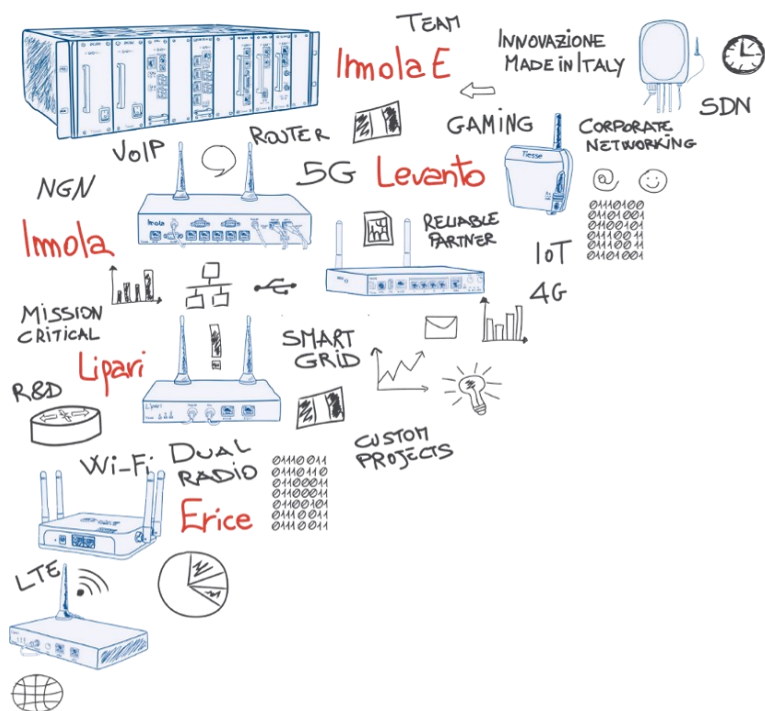


Features

Power supply voltage	AC/DC (internal Universal 100-240 VAC)
Power consumption	< 40 W (Full configuration)
Operating temperature	-5°C / + 50°
Storage temperature	-40°C / +70°C
Max operating humidity	93% (non condensing)

LED





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