

Lipari 5200-IKW

Dual SIM cellular LTE and Wi-Fi router





Lipari 5200-IKW

Wi-Fi and dual SIM LTE router



Lipari 5200-IKW provides LTE connectivity to the user accessing the public or private data network (Internet/Intranet) with the appropriate level of security.

The **5200-IKW** router has two SIM slots to support failover and backup configurations. The use of the operator with the best network coverage, depending on the location of the installation, also increases the reliability of the end-to-end solution.

Lipari 5200-IKW has also 2.4 GHz Wi-Fi.

KEY BENEFITS

- \Rightarrow Always-on connection and service continuity
- \Rightarrow Security
- \Rightarrow Easy installation and factory preconfiguration
- \Rightarrow SIMs are installed and tested in factory on each device
- \Rightarrow Remote management and provisioning

APPLICATIONS

Lipari 5200-IKW is particularly suited for business critical applications in the following scenarious:

- \Rightarrow Sales points
- ⇒ Temporary installations / Outdoor installations
- \Rightarrow Disadvantaged locations not reached by fixed networks
- \Rightarrow Backup to the main network
- \Rightarrow Totem, Vending Machine, ATM
- \Rightarrow Digital Signage
- \Rightarrow Video Surveillance
- \Rightarrow Telecontrol and monitoring application

Digital Divide and Mobility

..... Wherever you are

Access

- It is possible to access the company data from any external location, even on the move (like agents, branch offices, temporary offices in fairs or construction sites).
- It is possible to grant immediate access to the network without waiting for the activation of the fixed line
- In case of temporary or itinerant installations (fairs, events, events, seasonal services)
- In case of unattendend positions (Kiosks) for payment services, advertising, information points, gaming

Security

Guaranteed secure VPN communication even on the public network. IPSEC with 3DES - Data protection

Installation

Easy and immediate installation, possibility of ex-factory configuration

Performance

Optimization of the use of the mobile radio channel to control traffic costs and improve transmission quality: asynchronous notifications, control messages, time inactivity, removable antenna to allow the use of high gain or outdoor antennas

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Zero Touch Provisioning

Lipari 5200-IKW routers are integrated in the TNA (Tiesse Network Architecture) suite, which is used for the remote and automated management via WEB of the configurations and firmware releases of the installed device park.

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INTERFACES

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LAN	FE ports	4	Ethernet ports 10/100 Mbps -RJ45 With or without auto-negotiation, configurable
	Wi-Fi port	1	802.11 b/g/n (2.4 GHz)
RADIO CELLULAR	BANDS	•	 LTE FDD: B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 GSM: B3/B8
	LTE	•	 Support up to CAT4 * LTE FDD: 150 Mbps (DL) - Max 50 Mbps (UL)
	UMTS	•	 DC-HSDPA: max 42 Mbps (DL) HSUPA: max 5.76 Mbps (UL) WCDMA: max 384 Kbps (DL) - max 384 Kbps (UL)
	GSM	•	 EDGE: max 296 Kbps (DL) - max 236.8 Kbps (UL) GPRS: max 107 Kbps (DL) - max 85.6 Kbps (UL)
	SIM		 2 SIM cards (mutual esclusive)
CONSOLE	Console port	1	RJ45 connector





Front view, with the SIM slot protection opened and the two cards inserted

Front view, with the SIM slot protection closed

* Designed and prepared for category 6, available on request

Lipari 5200-IKW - Dual SIM LTE and Wi-Fi router

LAN connectivity towards mobile 4G (LTE) network

		PROT	TOCOLS	
se - Lipari 5200-IKW Datasheet	NETWORKING LAYER 2 features	 TCP-UDP IPv4 IPv6 support ARP LAN Bridging Supporto VLAN su interfaccia LAN 802.1q in Access mode, Trunk, Native VLAN e Hybrid mode 	SECURITY	 NAT/PAT ACLs, Stateful Firewall SSL Tunnelling L2TP GRE Tunnelling with keep alive and key sequence numbering (optimization of the radio mobile network) VPN con IPSEC. 3 DES Encryption
4	ROUTING & MULTICAST	 Static BGP-4, BGP-4+ OSPFv2 RIPv1, RIPv2 Policy-based routing (PBR) 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 sparse-mode 	CONFIGURATION	 DHCP client, DHCP Relay DHCP server with antispoofing functionality DHCP Layer Discovery Protocol IEEE 802.1ab Intelligent DNS Proxy, local and remote Traceroute NTP Client and Server support Easy VPN DDns
	QoS	 PIMv2 and PIMv2 dense-mode, MSDP IEEE 802.1d (Spanning Tree Protocol) Traffic classification based on sourceIP, combination of source IP, destination IP, protocols (UDP, ICMP,TCP, ecc), over precedence DSP/IP, ToS or ports DiffServ CoS over VLAN Shaping with allocated guaranteed bandwith and redistribution of the in excess one Committed Access Rate and Multicast rate limit Traffic Prioritization mechanism, definition of an arbitrary number of priority classe IEEE 802.3ad link aggregation 	AND MANAGEMENT	 SNMP v1, SNMPv2, SNMPv3 Telnet server with multiple contemporary sessions SSH server with multiple contemporary sessions (SSHv2) IP SLA with support of: One Way Delay, Round Trip Delay, Jitter, Packet Loss Fault management Syslog /Trap 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 Configuration via HTTP WEB GUI Possibilty to mantain a certain arbitrary number of configuration TNA (Tiesse Network Architecture) suite for auto-provisioning and API remote automated management

Lipari 5200-IKW - Dual SIM LTE and Wi-Fi router

LAN connectivity towards mobile 4G (LTE) network

	Syste/
POWER	 AC Adapter Desktop 12V 2,5A RoHS3 , external power supply 12-24 VDC (range 9-28)
CONSUMPTION	< 3 W
ENVIRONMENT	Operating temperature: -25°C / +70° C -40° C / +70° C - limit range of operation Storage temperature: -40° C / +70° C Max operating humidity: 95% (non condensing)
PROTECTION GRADE	IP40

	LED INDICATORS
Status LED	1 x power / operative status
Ethernet	2 x operative status - for each port
	1 x status/activity radio cellular connection
Radio	1 x reporting which SIM is in use (SIM1 vs SIM2)
cellular	1 x IP address operative state (No IP, Obtaining it, Assigned)

SYSTEM FEATURES

PROCESSOR	CortexA7- 528 MHz
MEMORY	Default 128 MB (up to 512 MB optional)
FLASH MEMORY	256 MB or optional version on request: EMMC (8 GByte) with Linux Debian

	EXTERNAL FEATURES	
Material	Metal black	
Antennas	Radio cellular 2 x external removable 4G antennas. SMA male connectors Wi-Fi 2 x external removable b/g/n antennas. SMA male connectors.	ζ
Mounting	On horizontal plane	

SIZE



Technical support

Tiesse provides the user with two sites that are constantly updated:

Support.tiesse.com: the site with technical documentation, assembly instructions, software updates, and how to request technical support.

Wiki.tiesse.com: the site with manuals, instructions for installation, case studies, scenarios, FAQs, etc.



Lipari 5200-IKW models are provided with optional add-ons like omnidirectional outdoor antennas and brackets for mounting on a 1U rack.

Refer to the specific documentation on both add-ons and supported SFP transceiver for more information.

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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.

www.tiesse.com

Info: mail@tiesse.com Marketing & Sales: marketing@tiesse.com



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Trees in Italy

Ivrea – Headquarter - Sales offices, Manufacturing facility and R&D: Via Asti 4, 10015 Ivrea (TO) - Tel +39.0125230544 - Fax +39.0125631923 Rome – Sales offices and R&D: Viale L. Gaurico 9/11, 00143 Roma EUR - Tel +39.0654832203 - Fax +39.0654834000 Turin - R&D: Via Livorno 60, 10144 Torino (TO) | Avezzano - R&D: Via C. Corradini 80, 67051 Avezzano (AQ)

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