



ISTRUZIONI TECNICHE

Modulo Router

CONFIGURARE UMTS GEOL

In questo manuale vengono descritti i settaggi del Router, della SIM card e dei moduli G801 o G802 per realizzare, tramite internet, la comunicazione di comandi e/o dati tra il PC e i moduli stessi.

 Materiali necessari: 	- PC	- Cavo LAN Ethernet	- Router
	- Antenna	- Alimentazione 12V	- SIM Card
Proprietà - (Generale Avan Connetti tramite Scheda F La connessione Condix Ondix Ondix Ondix TCP/IP. Protocon Torp/IP. Protocon Conditione	Connessione alla rete locale (LAN zate) = = = = = at Ethernet VIA compatibil Confi e utilizza i componenti seguenti: per reti Microsoft di pianificazione pacchetti QoS ollo Internet (TCP/IP) Disinstalla Prop ocollo predefinito per le WAN che permett ne tra diverse reti interconnesse.	gura Proprietà - Protocollo Internet (TC) Generale È possibile ottenere l'assegnazione auton rete supporta tale caratteristica. In caso o richiedere all'amministratore di rete le impo Ottieni automaticamente un indirizzo Utilizza il seguente indirizzo IP: Indirizzo IP: Subnet mask:	P/IP) ? X hatica delle impostazioni IP se la ontrario, sarà necessario istazioni IP corrette. IP 192.168.0.6 255.255.255.0
	aso di connettività limitata o assente	Annulla Annulla Gateway predefinito: Ottieni indirizzo server DNS automat Utilizza i seguenti indirizzi server DN Server DNS preferito: Server DNS alternativo:	192.168.0.1 icamente 5: 192.168.0.101 0.0.0.0
1. Disabilitare Wi-Fi del P	C.		OK Annulla

- 2. Disabilitare DHCP del PC.
- 3. Scollegare il PC dalla rete locale staccando fisicamente il cavo ethernet LAN.
- 4. Cambiare indirizzo IP del PC sulla stessa classe del router, "192.168.0.xxx" (con xxx tra 2 e 255). Vedere figure sotto. Non è necessario impostare il server DNS.
- 5. Collegare il PC al Router tramite cavo ethernet.
- 6. Cablare le 2 antenne al Router.
- 7. Inserire il connettore porta sim card sul Router.

11. Verrà visualizzata la seguente schermata

- 8. Alimentare il Router attraverso il cavo d'alimentazione 12 V.
- 9. Connettersi dal PC alla pagina di configurazione del Router digitando (nel browser) l'indirizzo IP di default: 192.168.0.1.
- 10. Vi verrà chiesto di inserire nome utente e password, di default sono:

User ID: admin Password: Teltonika01 UVCI VICW System III II 38.5% CPU load Mobile 🖬 🖾 -81 dBm atl Router uptime 0d 7h 54m 51s (since 2019-04-30, 07:09:39) Local device time 2019-04-30 15:04:30 Casto Registered (home): vodafone IT 4G (LTE) Memory usage RAM: 88% used FLASH: 9% used Firmware version RUT2XX R 00.01.04.1 Bytes received/sent * 1.9 MB / 819.9 KB Wireless 🖩 🖾 🛛 🔿 🔿 1- AP; 1 CH (2.412 GHz) WAN failover status Failover link is enabled Local Network III @ IP / netmask 192.168.0.1 / 255.255.255.0 N/A Recent System Events III Recent Network Events III 1 2019-04-30 14:46:20 - Port: LAN cable is plugged in 2 2019-04-30 14:46:15 - Port: LAN cable is unplugged 2 2019-04-30 13:40:19 - WiFi client disconnected: 14:9F:3C:37:71 3 2019-04-30 14:39:08 - Web UI: Authentication was succe sful fro ...

Data connection 0d 1h 49m 34s (since 2019-04-30, 13:14:56) SIM card status SIM (Ready) WAN III 2 Mobile 929 IP address 83 224 142 237 Public IP adress Remote Management System Status Disabled 1 2019-04-30 14:38:10 - WiFi client connected: 14:9F:3C:37:71:D3 ... 3 2019-04-30 13:15:09 - Mobile data connected: vodafone IT 4 2019-04-30 14:37:44 - Port: LAN cable is plugged in 4 2019-04-30 13:15:05 - Joined 4G LTE



12. Selezionare "Network - LAN" per entrare nella schermata qui a fianco: Configurazione LAN: IP ADDRESS: 192.168.0.1 IP NETMASK: 255.255.255.0 DHCP: Enable	Sharks Liki - His II x + C → C © Normanny 192.184.0 top in hubbanes - HTML Configuration Configuration Configuration Configuration Process Z Z Z Configuration Process Z Z Z Configuration DetCP Intervent DetCP Intervent DetCP Intervent DetCP Intervent Z DetCP Intervent DetCP Intervent Z DetCP Intervent Z DetCP Intervent Z Z
13. Una volta compilata la pagina, salvare cliccando su "SAVE".	Static Lasses Notestamm MAC address P address There are no address configurated pet
 Selezionare "Network - Mobile" per entrare nella schema- ta sottostante. 	Add P Adapas P adaping can be used to provide multiple network addresses on a single interface. Preve are no P adapast constort yet
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15. Una volta compilata la pagina salvare cliccando su "SAVE".	Onternal Network Operators Noble Data Limit
·	Mobile Configuration
16. Selezionare "Network - Firewall" per entrare nella scher- mata a fianco: Impostazioni Firewall: Drop invalid packet: non spuntato Input: Accept Output: Accept Forward: Reject DMZ Configuration: Enable: Non spuntato	Mohle Certiguetten Mohle Certiguetten 0.0 • Status MD • B * denotes aut blogs mells begrende are skalled else nulleun is exalled MB • PM • unter - Data mater - Data mater - Streit en - Autorisation entrol NB • Carlot data mater - Data mater - Data mater - Data mater - Data formation - -
 17. Selezionare "Port forwarding rules" per configurare le por Input/Output. 18. Aprire la porta 80, 21, 20 cliccando name sotto il menù "New 	Fore LTE network Coulde Fore LTE network Fore
Rule".	Firewall General settings allows you to set up default frewall policy
Configurare le porte :NameProtocol External portInternal IPInternal IPPorta80Tcp/udp 80192.168.0.308Porta20Tcp/udp 20192.168.0.302Porta21Tcp/udp 21192.168.0.302	Drei invité pachts : Drei invité pachts :
comando "Add".	Late Liatilite II Zone Porwarding Source zone Destination zones Default forwarding action Manquerating
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New Port Porward Rule
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18/a. Per effettuare la connessione remota al router usando IP PUBBLICO generato dalla SIM dati, eseguire la seguente procedura:

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192.168.0.1:8080 •	192.168.0.1:8080
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toot Backup Access Control Diagnostics MAC Clone Overview RMS Root CA	General Settings Port Forwarding Traffic Rules Custom Rules DBOS Prevention Port Scan Prevention Helpers
rel	Firewall - Traffic Rules Traffic rules define policies for packets traveling between different zones, for example to report traffic between certain horts or to open WAN ports on the ro
	Traffic Rules
your device reachable from WANL this might pose a security risk, especially if you are using a weak or default user password!	Name Process Source Jeanman Source
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19. Una volta aperte tutte le porte salvare cliccando su "Save".

20. Per proteggere il Router da attacchi esterni DDOS inserire nelle porte 80,21,20 un indirizzo IP pubblico della rete locale da cui i PC possono accedere bloccando tutti gli esterni alla rete.

21. Impostare IP nella tendina "Source IP address" come nella foto seguente:



1							
< > C When secure 192.16600.1/cgi-bin/slici/sto	K+aoteos/2stadst2cocco42etts2ccscs/admit/network/inewaitronwards/cigs55c57	÷	→ C O Non sicuro 192.168.0.1/cgi-bin/luci/stok=a86b5925fad3f2c6	Occf428ff3cc5c50/admin/network/firewa	ll/forwards/cfg333837		
	TELTONIKA Status Network Services System	Logout	(),,TE	LTONIKA Status Ne	twork - Services -	System -	Logout [
	FW vec: RUT2	2XX_R_00.01.04.1			VPR: opervon O		
	General Settings Port Forwarding Traffic Rules Custom Rules DDOS Prevention Port Scan Prevention	Helpers			🔹 wan: wan: 🖄 ppp: 🖄		
	Firewall - Port Forwards - 80			Source MAC address	any G	Ð	
	This page allows you to change advanced properties of the part forwarding entry. Although, in most cases there is no need to modify those settings.			Source IP address	93.61.84.220		
	Enable 🖉			Source port			
	Name R0			External IP address	any		
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	External IP address any			Extra arguments			
	External port 80		8	ack to Overview			Save
	Internal zone 💿 gre: gre tunnel 🅥						
	hotspot:		Telton	ka solutions		Wai	Teltonika I www.teltonika.it

22. Una volta compilato la pagina salvare cliccando su "Save".

23. Se la SIM Card ha "IP pubblico" NON abilitato, la G801 o G802 può solo trasmettere i dati a un FTP Server.

G801o G802 FTP Client --> FTP Server

24. Se la SIM Card ha "IP pubblico statico" abilitato la G801 o G802 può spedire i dati ad un FTP server e può ricevere i comandi remoti.

G801 o G802 FTP Server <-- FTP server G801 o G802 WEB Server <-- FTP server

25. Per usufruire di tutte le modalità elencate in precedenza è necessario convertire l'IP pubblico-dinamico in IP statico. Può essere utilizzato un servizio di DNS dinamico. Si indicano a seguire due tra i più diffusi servizi di questo tipo:

a) https://account.dyn.com/dns/dyndns/ b) https://www.noip.com/sign-up

26. Selezionare "Services - Dynamic DNS" per entrare nella schermata sottostante:

👞 Teltonika - Dynamic DNS - Web 🛛 🗙 🕂							-	a	×
← → ♂ ③ Non sicuro 192.168.0.1/cgi-bin/luci/:stok=9a3ae	8144ec60d68d9fa1a13dc68	6b7f/admin/services/dd	Ins				ar 20	☆ (Θ:
	TELTONIKA	Status - N	letwork -	Services -	System -	Logout			÷
						FW ver.: RUT2XX_R_00.01.04.1			
	DDNS								
	DDNS Configuration	i i							
	DDNS name	Hostname		Status	Enable				
	Myddns	yourhost example com	12	N/A		Edit Delete			
	New configuration name:		Ad	id New					
						Save			

27. Se si vuole aggiungere il servizio DYNDNS è necessario scrivere il nome e premere, nel menù, "Add New".28. Per configurare il DNS vedere la foto seguente:

Enable:	Spuntare
Service:	selezionare servizio DYN.COM
Hostname:	nome dato dal servizio Dyndns alla centralina
Username:	User del DynDNS
Password:	Passw del dyndns
lp source:	Public
URL to detect:	viene associato in automatico
IP renew interval:	10
Force IP renew:	72

29. Una volta compilato la pagina salvare cliccando su "Save".

30. Se invece si vuole creare un ponte di collegamento diretto ai moduli G801 o G802, utilizzare la WAN3(Wi-Fi) sotto il menù (Network-Routing).

31. Una volta compilato la pagina salvare cliccando su **"Save".**

32. Collegarsi al Wi-Fi del router mod. RUT240 tramite il telefono disabilitando il DHCP, impostare l'opzione STATICO, come da esempio nelle immagini sottostanti.

33. Digitare l'indirizzo IP: 192.168.0.30 da un Browser, vi verrà chiesto:

User ID: admin Password: 1234

TELTONIKA Status - Ne	twork - Services -	System -	Log
			FW ver.: RUT2XX_R_00.
Dynamic DNS			
Dynamic DNS allows you to reach your router using a	fixed hostname while having	ig a dynamically changing IP address.	
DDNS			
Enable	8		
Use HTTP Secure			
Status	NIA		
Service	dyn.com 🔹		
Lookup host	yourhost example.com		
Hostname	yourhost example.com		
User name	your_usemame		
Password		10 N	
IP address source	Public *		
URL to detect	http://checkip.dvndns.com		
IR receive intercent	10	ID range interval of	di Minutes V
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Back to Overview			Save
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TELTONIKA Status - Netw	ork Services	System -	Logo

34. La configurazione è terminata.

					FW ver.: RUT2XX_R_00.0
Static Routes	Dynamic Router	i -			
tatic Route	s				
outes specify over	which interface and g	ateway a certain host or ne	work can be reached.		
Static IP Route:	s				
Routing table In	nterface	Destination address	Netmask	Gateway	Metric
WAN •	WAN (Wired) •	0.0.0.0	0.0.0.0		0 Delete
WAN2 ·	WAN2 (Mobile)	0.0.0.0	0.0.0.0		0 Delete
WAN3 •	WAN3 (WIFI) •	192.168.0.0	255 255 255 0	192.168.0.1	1 Delete
Add					
Static ARP Entr	ries				
IP address			MAC address		
There are no static	ARP entries yet				
Add					
					Save



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EU Declaration of Conformity

21th of September, 2021

Kaunas

Declaring Organization: Product Name: Product Model Name: TELTONIKA NETWORKS UAB LTE Router RUT240

Used frequency range of built-in RF module:

Band		UL f, MHz	DL f, MHz
GSM	GSM900	880-915	925-960
	GSM1800	1710-1785	1805-1880
WCDMA	1	1920-1980	2110-2170
	8	880-915	925-960
LTE	1	1920-1980	2110-2170
	3	1710-1785	1805-1880
and the free states and	7	2500-2570	2620-2690
	8	880-915	925-960
	20	832-862	791-821
	28A	703-733	758-788
Wi-Fi 2.4GHz	1-13	2401	-2483

Transmit Power:

- Wi-Fi 2.4GHz: 12.6 dBm (EIRP)
- Max. 32.33 dBm (GSM1800)
- Max. 23.63 dBm (WCDMA B8)
- Max. 23.8 dBm (LTE B7)

TELTONIKA NETWORKS UAB K. Barsausko st. 66, LT-51436 Kaunas, Lithuania

Registration code 305579419 VAT number LT100013223510

Swedbank AB LT78 7300 0101 6274 0111 S.W.I.F.T. HABALT22



TELTONIKA | Networks

www.teltonika-networks.com networks@teltonika.lt

TELTONIKA NETWORKS UAB, hereby declare under our sole responsibility that the above-described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).

The conformity with the essential requirements has been demonstrated against the following harmonized standards:

Harmonized standard reference	Article of Directive 2014/53/EU	Test report No.
IEC 62368-1:2018		
EN 62368-1:2014+A11:2017	Health and as fata Astisla 2.1(a)	R1910A0619-L1
EN 50385:2017	Health and safety – Article 3.1(a)	R1910A0619-M1
EN 62232:2017		
EN 55032:2015		
EN 55035:2017	Electrome en etie e en etibilite	
ETSI EN 301 489-1 V2.2.3	Article 2 1(b)	R1910A0619-E1V1
Draft ETSI EN 301 489-17 V3.2.0	Article 5.1(b)	
Draft ETSI EN 301 489-52 V1.1.0		
ETSI EN 301 511 V12.5.1		D101040(10 D1 / D100540247 D1
ETSI EN 301 908-1 V13.1.1	Efficient use of redie encetrum	R1910A0619-R1 / R1805A024/-R1
ETSI EN 301 908-2 V13.1.1	Article 2.2	R2101A00/2-R2
ETSI EN 301 908-13 V13.1.1	Alucie 5.2	R2101A00/2-R3
ETSI EN 300 328 V2.2.2		SZCR210402067702

The conformity assessment procedure referred to in Article 17 and detailed in Annex III of Directive 2014/53/EU has been followed with the involvement of the following Notified Body: Timco Engineering, Inc., 849 N.W. State Road 45, Newberry, Florida 32669, United States. Notified Body No.: 1177.

Therefore \mathbf{CE} is placed on the product.

EU Type Examination Certificate No. TCF-3357CC19

Head of Testing Division

TELTONIKA NETWORKS UAB K. Barsausko st. 66, LT-51436 Kaunas, Lithuania

Registration code 305579419 VAT number LT100013223510

Swedbank AB LT78 7300 0101 6274 0111 S.W.I.F.T. HABALT22



Eligijus Gružauskas







EU RoHS Declaration of Conformity

13th of August, 2021

Kaunas

This EU RoHS Declaration of Conformity is issued under the sole responsibility of the manufacturer.

The objects of the declaration described below are in conformity with Directive 2011/65/EU and amendment 2015/863/EU (RoHS 3) of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Models listed in **Table 1** do not contain any substances above the maximum concentration limits of 0.01% for Cd and 0.1% for Pb, Hg, Cr (VI), PBB, PBDE, DEHP, BBP, DBP, DIBP as appointed in the Annex II of 2015/863/EU, except those application(s) listed in **Table 2** which are exempted by the Annex III of Directive 2011/65/EU listed in:

exemption for lead (Pb) subject to 2011/65/EU Annex III:
 (6c) copper alloy containing up to 4% lead by weight.

Table 1. List of products without any exemptions.

Category	Device	
	RUT300	
Router	RUT850	
	RUTX08	
Switch	TSW100	
	TSW110	

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TELTONIKA | Networks

Category	Device	Exemption for lead (Pb) subject to 2011/65/EU Annex III
Mal	TRM240	V
Modem	TRM250	Yes
	TRB140	
	TRB141	
Cotoria	TRB142	V
Gateway	TRB145	Yes
	TRB245	
	TRB255	
	RUT230	
	RUT240	
	RUT360	
	RUT900	
	RUT950	
Doutor	RUT955	Vac
Kouter	RUTX09	1 es
	RUTX10	
	RUTX11	
	RUTX12	
	RUTX14	
	RUTXR1	

Table 2. List of products with applied exemption.

Signed for and on behalf of TELTONIKA NETWORKS UAB Management representatives:

Head of Technical Support Department



TELTONIKA NETWORKS UAB K. Barsausko st. 66, LT-51436 Kaunas, Lithuania

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