

# TS600 Modem

## PRO | LITE | ULTRALITE



# Modem Router

The Tecsyst TS600 Router Modem has been developed to ensure high availability and use in mission-critical equipment. It is suitable for monitoring, supervising, and remote-controlling equipment in the field, as well as power substations, gas services, water treatment, and other applications.

**TECSYS**<sup>®</sup>  
Smart Power

## DESCRIPTION

The Modem Router utilizes 3G/4G LTE Cat-4 cellular communication technology, providing high-performance data communication and featuring fallback capabilities to earlier technologies 2G ( GSM, GPRS e EDGE ). With support for all bands licensed by ANATEL – B1, B3, B5, B7, B8, and the B28 frequency band at 700 MHz for LTE technology, the product can be installed throughout the Brazilian territory and is compatible with all Telecom operators. It also supports bands B2, B4, B5, B12, B13, B14, B17, B66 for the Americas. The device features an ARM® Cortex™-A7 architecture (1.3GHz) and an embedded Linux operating system, delivering excellent performance in processing connectivity functions and application environments. The product provides various options for Firewall configurations, Static and Dynamic Routing (OSPF), Port Forwarding, and the possibility of establishing communication through a VPN tunnel using OpenVPN, IPSEC, and DMVPN.

The system comprises a set of interfaces that make it extremely flexible for various applications. The 10/100 Ethernet interface (IEEE 802.3) is ideal for scenarios where it is connected to a Local Area Network (LAN) or directly to devices using an Ethernet interface for communication. It also features a standard RS-232 interface, allowing its use with equipment and devices that use serial communication and applications of the client/server type.

Featuring a dual-slot design, this system allows the utilization of two SIM cards, ensuring robust connection stability in its operation. It provides quick and automatic switching between carriers, along with pre-defined timeout functions and priority rules for continuous performance. The built-in GPS module is ideal for applications requiring geolocation and asset management.

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The TS600 Tecsys Modem Router is a versatile and robust product designed for professional applications and for use in SCADA systems, Telemetry for AMI, telemetry solutions, remote sensing, and other M2M applications that require broadband connectivity.

## TS600 LITE



## TS600 PRO



## TS600 ULTRALITE



Modem 4G  
com tecnologia



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# TECHNICAL SPECIFICATIONS

## Modem Router TS600 PRO / L / UL

SOFTWARE FEATURES		HARDWARE FEATURES	
<b>Management</b>	SNMP v1/v2	<b>Serial interface Connector DB9</b>	2x RS-232 (With Client/Server application)
	SYSLOG / SSH		Male or Female connector type*
	Local and Remote - WEBPAGE	<b>LAN Interface</b>	2x 10/100 base-T Ethernet port
<b>Network tools</b>	Port Forwarding	<b>WAN Interface</b>	Wireless WAN with 3G/LTE
	Failover	<b>SIM</b>	2x SIM card Slot
	DHCP Server/Client	<b>Conector RF</b>	1x SMA Cellular Antenna
	NAT		1x SMA GPS Antenna W/ 3v3 Power Supply
	NAT Traversal	<b>USB Port</b>	1x port 2.0
	DNS	<b>Indicator LEDs</b>	SIM-1 / SIM-2
	Firewall		Error
	Static Routing		Connection
Dynamic Routing (RIP1/RIP2, OSPF, BGP)	Tx On		
<b>VPN Tunnel</b>	OpenVPN	<b>Power</b>	1x Conector Borne 8~40 VDC
	IPSEC VPN	Power consumption - Typical 2W	
	DMVPN	<b>Dimension / Weight</b>	173 x 133 x 44 mm (Pro/Lite)
<b>SUPPORTED BANDS - BRAZIL (B)</b>			138,6 x 77,0 x 44,5 mm (Ultralite)
<b>LTE</b>	B1, B3, B5, B7, B8 e B28		615g (Pro/Lite); 250g (Ultralite)
<b>3G</b>	B1, B5 e B8	<b>Attachment</b>	DIN Rail Bracket
<b>2G</b>	900/1800MHz	<b>Mechanical features</b>	Protection level - IP50
<b>SUPPORTED BANDS - AMERICAS (A)</b>			Operating temperature -15 a +70 °C
<b>LTE</b>	B2, B4, B5, B12, B13, B14, B17, B66	<b>Manufacturing Standards</b>	IPC/JEDEC J-STD-020
<b>3G</b>	B2, B4 e B5	IPC/JEDEC J-STD-033	
		<b>Anatel homologation</b>	08702-20-03030

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# TECHNICAL SPECIFICATION

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### APPLICATIONS

SCADA	Substations
Smart Grid	Smart Metering
Critical Mission Communication	

### OPTIONAL LIST

Cabo Serial Y - DUAL	Battery
Penta Band Antenna 6dBi - MU-00PI (magnetic base)	DIN Rail Adapter
GPS Antenna (magnetic base)	*Female Connector per customer request
Port monitoring - up to 3 external contacts	Remote control - up to 3 contacts

### TS600 MODELS

	TS600 MODEM PRO	TS600 MODEM LITE	TS600 MODEM ULTRALITE
ETHERNET	x2	x1	N/A
SERIAL	x2	x2	x2
USB	x1	N/A	N/A
USB CONFIG*	N/A	N/A	x1
SIM CARD	x2	x2	x2
GPS	x1	x1	x1
Input contacts (optional)	x3	x2	N/A
Output contacts (optional)	x3	x2	N/A

\*The network connection can be configured via the web platform.

UPDATED VERSIONS OF THIS MATERIAL CAN BE OBTAINED FOR DOWNLOAD ON OUR WEBSITE.