

# TS850 CONCENTRADOR GODEL MULTILINK



## TS850 Multilink Communication Concentrator



The Multilink Concentrator from TECSYS do Brasil is an innovative solution that integrates and manages numerous monitoring devices in energy, water, oil and gas networks. It is interoperable, compatible with equipment from different manufacturers, and uses the open Wi-SUN mesh communication standard. This technology enables efficient, real-time management.



## DESCRIPTION

TECSYS do Brasil's Multilink Concentrator works as a central communication point between equipment in the field and the control centers of energy, water, oil and gas utilities. It receives and consolidates data from devices such as smart sensors, meters, control switches and valves, guaranteeing the security and encryption of the information sent to the companies' control and supervision systems. Using the open Wi-SUN mesh communication standard, Multilink Concentrator operates on various communication channels, including 4G/LTE cellular networks, fiber optics, satellite and digital radio. Flexible and expandable, the system has six expansion slots to adapt to current and future market requirements.

Developed with support from ANEEL, in partnership with Neoenergia and Lactec, the project uses technology certified by the Wi-SUN Alliance, based on IEEE 802.15.4g, for applications in smart grids, smart cities and IoT.



# TECHNICAL SPECIFICATIONS

## TS850 Multilink Concentrator

### SOFTWARE FEATURES

<b>Management</b>	SNMP v1/v2
	SYSLOG / SSH
	Local and Remote - WEBPAGE
<b>Network Tools</b>	Port Forwarding
	Failover
	DHCP Server/Client
	NAT
	NAT Traversal
	DNS
	Firewall
	Static Routing
	Dynamic Routing (RIP1/RIP2, OSPF, BGP)
<b>VPN Tunnel</b>	OpenVPN
	IPSEC VPN
	DMVPN

### HARDWARE FEATURES

<b>Interface LAN</b>	6x 10/100 base-T Ethernet port
	1x Optical Fiber
<b>Serial</b>	1x RS232
<b>USB Port</b>	1x port 2.0
<b>General Purpose Slot (X6)</b>	USB
	UART
	SPI
	I2C
	5VDC
	3.3 VDC
<b>Power Supply</b>	GND
	1x Connector Borne 8~40 VDC

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### FAN COMMUNICATION FEATURES

Security	802.1X
	802.11i
	EAP-TLS
Communication Protocol	Wi-SUN
Transport Protocol	UDP
Routing protocol	RPL over IPV6 / 6LoWPAN
PHY layer	IEEE 802.15.4
MAC layer	IEEE 802.15.4
Network layer	IPv6 / ICMP / 6LoWPAN
Modulation	FSK
Power Output	Up to +30dBm
Operating Frequency	902 ~ 907.5 MHz
	915 ~ 928 MHz
Channel Width	200Khz, (90 Channels)
	400Khz, (43 Channels)
Data Rate	50kbps
	150kbps
Frequency Jump	Yes

### WAN COMMUNICATION FEATURES

Category	CAT-4
Up Link	150Mbps
Dow Link	50Mbps
LTE Bands	B1, B3, B5, B7, B8 e B28
3G Bands	B1, B5 e B8
SIM	2x SIM card slot
Connector RF	1x SMA mobile antenna
	1x SMA GPS Antenna w/ 3v3 Power Supply

## TECHNICAL SPECIFICATIONS

### TS850 Multilink Concentrator

#### MECHANICAL CHARACTERISTICS

<b>Dimensions</b>	Length: 162 mm
	Width: 270 mm
	Height: 180 mm (134 mm without bottom brackets)
<b>Weight</b>	3 kg
<b>Material</b>	Steel chassis, aluminum modules, electrostatically painted
<b>Fastening</b>	4 x M3 or M4 screws

#### APPLICATIONS

<b>SCADA</b>	<b>Mission Critical Communication</b>
<b>Smart Grid</b>	<b>Substations</b>
<b>Smart Metering</b>	

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