TS850 CONCENTRADOR GODEL MULTILINK

TS850 Multilink Communication Concentrator





K Neoenergia

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.





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TECHNICAL SPECIFICATIONS TS850 Multilink Concentrator

SOFTWARE FEATURES		HARDWARE FEATURES	
Management	SNMP v1/v2	Interface LAN	6x 10/100 base-T Ethernet port
	SYSLOG / SSH		1x Optical Fiber
	Local and Remote - WEBPAGE	Serial	1x RS232
Network Tools	Port Forwarding	USB Port	1x port 2.0
	Failover	General Purpose Slot (X6)	USB
	DHCP Server/Client		UART
	NAT		SPI
	NAT Traversal		12C
	DNS		5VDC
	Firewall		3.3 VDC
	Static Routing		GND
	Dynamic Routing (RIP1/RIP2, OSPF, BGP)	Power Supply	1x Connector Borne 8~40 VDC
VPN Tunnel	OpenVPN		
	IPSEC VPN		
	DMVPN		



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FAN COMMUNICATION FEATURES		
	802.1X	
Security	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	
operating riequency	915 ~ 928 MHz	
Channel Width	200Khz, (90 Channels)	
Chamler Width	400Khz, (43 Channels)	
Data Rate	50kbps	
	150kbps	
Frequency Jump	Yes	

WAN COMMUNICATION FEATURESCategoryCAT-4Up Link150MbpsDow Link50MbpsLTE BandsB1, B3, B5, B7, B8 e B283G BandsB1, B5 e B8SIM2x SIM card slot

 Connector RF
 1x SMA mobile antenna

 1x SMA GPS Antenna w/ 3v3 Power Supply



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MECHANICAL CHARACTERISTICS

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

APPLICATIONS

SCADA	Mission Critical Communication
Smart Grid	Substations
Smart Metering	

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

tecsysbrasil.com.br



