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C3X43

STPS

Industrial Dual SIM Cellular VPN Router 1 Eth + 1 RS232 + 1 RS485



INTRODUCTION

The TPS Industrial Dual SIM Cellular VPN Router (C3X43 series) is a rugged cellular router offering state-of-the-art mobile connectivity for machine to machine (M2M) applications. C3X43 series is used extensively in industrial applications such as pipeline monitoring, water treatment, Gas & Electricity distribution networks and many similar environments where a hardened product with bulletproof cellular communications is required. C3X43 series has extensive overvoltage protection, high EMC immunity and has a DIN-rail / panel mount form-factor making it ideal for use in any kind of industrial automation enclosure.

The following software features are present on C3X43 series:
Smart Roaming – intelligent network selection tool for roaming SIMs
VPN – Simple remote access on any SIM using VPN
TPSC – Router Management Platform – very feature rich
Data Guard – Automatically stop data overruns to avoid billshock

Secure Reboot –System integrity and protection against tempered attacks using link watch Link Watch – Intelligent network manegement based on ping or DNS

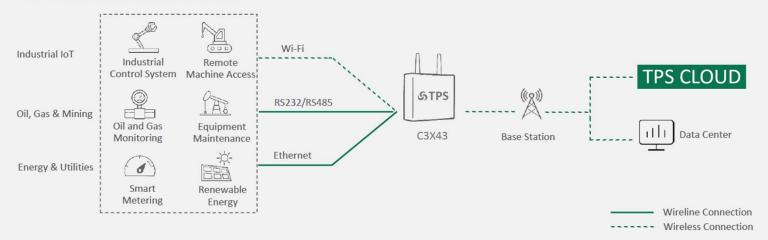
TPSC is TPS's router monitoring service that is fully compatible with the C3X43 series It allows customer to see a location overview of their routers quickly and simply on a map. Features such as data usage, signal strength, current network and much more can then be viewed on a per router basis. Over-the-air updates are supported for Firmware, router configuration and Apps serving as essential 'insurance' if anything was not quite right during deployment.

TPS CLOUD

KEY FEATURES

- Dual SIM DSSS for persistent 2G/3G/4G cellular network connection
- * WebUI + CLI
- * IPsec/OpenVPN/GRE/ PPTP/DMVPN
- * Mangement and maintenance via Web/CLI/SMS/SNMP/ Radius/TPS Cloud
- * TPS industrial design (9~65 VDC, desktop or DIN rail mounting)

APPLICATION EXAMPLE



SPECIFICATIONS

Cellular Interface

Number of antennas 2 (MAIN + AUX) Connector SMA-K

SIM 2 x Standard SIM

GSM/GPRS/EDGE/WCDMA/HSDPA/ Standards HSUPA/HSPA+/DC-HSPA+/TD-SCDMA/ CDMA(CDMA1X/EVDO)/FDD LTE/TDD LTE

Ethernet Interface

Number of ports 1 x 10/100 Mbps LAN port

Magnet isolation protection 1.5 KV

Serial Interface

Number of ports 1 x RS232, 1 x RS485

5pin 3.81mm terminal block (for RS232), Connector

2pin 3.81mm terminal block (for RS485)

ESD protection ±15 KV

Baud rate 110 bps ~ 230400 bps Flow control RTS/CTS (for RS232)

Others

Reset button 1 x RST

LED indicators 1 x PWR, 1 x Status, 1 x WWAN, 1 x WLAN,

1 x 2G, 1 x 3G, 1 x 4G, 4 x RSSI

Built-in RTC, Watchdog, Timer

Software

Network protocols PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT,

> HTTP, HTTPs, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP,Telnet, VLAN, SSH2, DDNS, etc. IPsec, OpenVPN, GRE, PPTP, DMVPN

VPN tunnel DMZ, anti-DoS, Filtering (IP/Domain name/ Firewall MAC address), Port Mapping, Access Control

WebUI, CLI, SMS, Raidus Remote management

Transparent, TCP Client/Server, UDP, Serial port

Modbus RTU Gateway

Wi-Fi Interface

Number of antenna

Connector RP-SMA-K

Standards 802.11 b/g/n, Supports server and

client modes

Frequency bands 2.4 GHz

Security WEP, WPA, WPA2, WPA3

128/256 AES Encryption

DI/DO

Type 2 x DI + 2 x DO, wet contact

Isolation

Socket form 4 x 2pin 3.81mm terminal block 3-30 VDC = High 0-1 VDC = Low Level

30 VDC (DI), 9 VDC (DO) Absolute maximum VDC

Absolute maximum ADC 10 mA (DI/DO)

Power Supply and Consumption

3.81mm srew terminal block Connector

9 ~ 65 VDC Input voltage

Idle: 100 mA@12 V Power consumption

Data link: 400 mA (peak) @12 V

Physical Characteristics

Ingress protection **IP30**

Housing & Weight Metal, 500 g Dimensions 100 x 100 x 40 mm Installations Desktop, 75 mm DIN rail

> mounting -40 ~ +75 °C -40 ~ +85 °C

Operating temperature Storage temperature 5 ~ 95% RH Relative humidity

Regulatory and Type Approvals

Environmental RoHS 2.0, WEEE

EN 55032: 2012/AC: 2013 (CE & RE) Class B **EMI**

EMS IEC 61000-4-2 (ESD) Contact Level 2;

Air Level 3

IEC 61000-4-3 (RS) level 3 IEC 61000-4-4 (EFT) level 3 IEC 61000-4-5 (Surge) Level 3 IEC 61000-4-6 (CS) level 3

ORDERING INFORMATION

Model	PN	Category	Dual SIM	POE	DI/DO	RS232	RS485	Ethernet	Dual SIM Redunduncy
C3X43	C3143-A	Cat 4	х	x	•	~	~	•	х
	C3143-U	Cat 1	✓	x	•	✓	•	•	х
	C3243-A	Cat 4	х	х	x	•	•	•	х
	C3243-U	Cat 1	✓	х	x	~	~	•	x
	C3443-A	Cat 4	X	✓	x	x	x	•	x
	C3443-U	Cat 1	•	~	х	х	×	•	Х