

Schneider Series Service Manual

TSXETG3021

1. Description

The TSXETG3021 module, part of Schneider Electric's TSX Micro PLCs series, functions as both a web server and gateway. It is equipped with a GSM/GPRS modem capable of operating at 900 and 1800 MHz, allowing for efficient communication.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line TSX Micro PLCs
Part	Number TSXETG3021
Weight	2.06 lbs (0.94 kg)
Name	Web server and gateway module
Memory	Capacity 32 MB internal, up to 1 GB Compact Flash, up to 1 GB USB memory stick
Type	of Modem GSM/GPRS 900/1800 MHz
Web	Server Class D20
Rated	Supply Voltage 12 V DC, 24 V DC
Supply	Voltage Limits 9...30 V DC
Rated	Current 100 mA
Maximum	Number of Connected Devices Serial link: 31
Ethernet	Port 10BASE-T/100BASE-TX
Discrete	Input Number 6
Discrete	Output Number 2
Mounting	Support Symmetrical DIN rail, plate
Current	Consumption 100 mA
Range	of product
FactoryCast	HMI Gateway
Product	or component type
Web	server and gateway module/router module
Concept	
RTU	
Transparent	Ready
Memory	capacity
32	MB internal
Up	to 1 GB Compact Flash
Up	to 1 GB USB memory stick
Type	of modem
GSM/GPRS	900/1800 MHz
Web	server
Class	D20
Complementary	
Kit	composition
Web	Designer software (CD-ROM)
Web	server and gateway module
Communication	gateway
Ethernet	TCP/IP to M

3. Product Information

The TSXETG3021 module, part of Schneider Electric's TSX Micro PLCs series, functions as both a web server and gateway. It is equipped with a GSM/GPRS modem capable of operating at 900 and 1800 MHz, allowing for efficient communication.

Technical specifications for TSXETG3021

Manufacturer Schneider Electric

Product Line TSX Micro PLCs

Part Number TSXETG3021

Weight 2.06 lbs (0.94 kg)

Name Web server and gateway module

Memory Capacity 32 MB internal, up to 1 GB Compact Flash, up to 1 GB USB memory stick

Type of Modem GSM/GPRS 900/1800 MHz

Web Server Class D20

Rated Supply Voltage 12 V DC, 24 V DC

Supply Voltage Limits 9...30 V DC

Rated Current 100 mA

Maximum Number of Connected Devices Serial link: 31

Ethernet Port 10BASE-T/100BASE-TX

Discrete Input Number 6

Discrete Output Number 2

Mounting Support Symmetrical DIN rail, plate

Current Consumption 100 mA

Range of product

FactoryCast HMI Gateway

Product or component type

Web server and gateway module/router module

Concept

RTU

Transparent Ready

Memory capacity

32 MB internal

Up to 1 GB Compact Flash

Up to 1 GB USB memory stick

Type of modem

GSM/GPRS 900/1800 MHz

Web server

Class D20

Complementary

Kit composition

Web Designer software (CD-ROM)

Web server and gateway module

Communication gateway

Ethernet TCP/IP to Modbus

Modem to Modbus

Modem to Ethernet TCP/IP router/RAS server (remote access server)

Web services

Access to the list of connected products configurable

Built-in mini firewall configurable

Control and monitoring functions via predefined web pages configurable

Customizable graphic monitoring interface configurable

Device diagnostic via predefined web pages configurable

Hosting of web pages and any user document configurable

Password protection configurable

Portal type web server configurable

internal processing

SMTP client

FTP client/server

SOAP protocol

BootP/DHCP protocol

PPP protocol

Security miniature firewall on-board

SNMP agent

VPN security

NAT router

[Us] rated supply voltage

12 V DC

24 V DC

Supply voltage limits

9...30 V DC

Supply

External

[In] rated current

100 mA

Integrated connection type

Serial link modem male SUB-D 9 PPP, PAP authentication RS232C, half or full duplex, 57 kbit/s

Ethernet TCP/IP 2-port RJ45, 10...100 Mbit/s, 1 twisted pair

Serial link RJ45 Modbus TCP/IP master RS485, 115 kbit/s

Maximum number of connected devices

Serial link: 31

Port Ethernet

10BASE-T/100BASE-TX

Discrete input number

6

Discrete input logic

Positive

Discrete output number

2

Discrete output logic

Positive

Mounting support

Symmetrical DIN rail

Plate

LED indicators

1 LED for RUN

1 LED for BAT

1 LED for CH0

1 LED for CH1

1 LED for CH2 (PPP, Modbus, modem activity)

1 LED for ERR

1 LED for Ethernet activity (Ethernet)

1 LED for EXT (memory extension)

Current consumption

100 mA

Width

73.2 mm

Height

151.5 mm

Depth

116.7 mm

Net weight

0.922 kg

Environment

Ambient air temperature for operation

0...60 °C

Relative humidity

10...95 % without condensation

IP degree of protection

IP20

Standards

EN 55011 class A

ISO/IEC 8802-3

EN 61000-6-4

CS03

CSA C22.2 No 142

UL 508

PSTN/ISDN R and TTE

EN/IEC 61131-2

GCF

ANSI/IEEE Std 802.3

FCC part 68

GSM R and TTE

Product certifications

A-Tick

Description

The Schneider Electric TSXETG3021 is a web server and gateway module designed for use in a variety of automation applications. This unit includes an internal memory capacity of 32 MB, along with the capability to utilize external storage options, specifically Compact Flash and USB memory sticks, each with a capacity of up to 1 GB. The module incorporates a GSM/GPRS modem operating at 900/1800 MHz, ensuring robust mobile communication.

The module utilizes a rated supply voltage of 12 V DC or 24 V DC, with an acceptable range between 9 V and 30 V DC, which provides flexibility in various installation scenarios. Its rated current is set at 100 mA, and in terms of connectivity, it can support a maximum of 31 devices through its serial link. The Ethernet port supports both 10BASE-T and 100BASE-TX standards, enabling efficient networking capabilities.

In terms of input/output configurations, the module provides 6 discrete inputs and 2 discrete outputs for digital signal management. Mounting options include a symmetrical DIN rail or plate, making installation straightforward. The unit has a net weight of 0.922 kg, and its physical dimensions are 73.2 mm in width, 151.5 mm in height, and 116.7 mm in depth.

This compact design and extensive feature set make the TSXETG3021 a valuable component in Schneider Electric's line of automation solutions.