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Connecting. Converting. Leading !

Document name: Specification sheet for 2G/4G Modem, GSX1

Features



- ✓ USSD, 0710 MUX protocol embedded TCP/UDP protocol
- ✓ PPP Stack, FTP/HTTP, Non Transparent mode
- ✓ MMS, SMS support
- ✓ Output power < 35 dBm
- ✓ Sensitivity < -110 dBm
- ✓ Control via AT commands (GSM 07.07 and 07.05)
- ✓ GPRS multi-slot Class 12/10/8
- ✓ Complaint to GSM phase 2/2+
- ✓ Coding Scheme: CS1 to CS4
- ✓ CSD up to 14.4 kbps
- ✓ Plug & Play design with easy to use interface

Specifications

Band

2G Modem : GSM 850/ 900
: DCS 1800/ PCS 1900 MHz

4G Modem : (For India only)
LTE FDD B1/B3/B5/B8
LTE TDD B38/B39/B40/B41
WCDMA: B1/B8
TD-SCDMA: B34/B39
CDMA:BC0
GSM 900/1800MHz

Data rate

CSD : Downlink/Uplink up to 14.4kbps

2G Modem : Max. 85.6kbps (Uplink & Downlink)

4G Modem : LTE FDD - Max. 150Mbps (DL) & Max. 50Mbps (UL)
LTE TDD- Max 130Mbps (DL) & Max 35 Mbps (UL)
DC-HSDPA – Max 42 Mbps (DL)
HSUPA- Max 5.76 Mbps (DL)
WCDMA-Max 384 Kbps (DL)/Max 384 Kbps (DL)
TD-SCDMA: Max 4.2 Mbps (DL)/Max 2.2 Mbps (UL)
EVDO: Max 3.1 Mbps (DL)/Max 1.8 Mbps (UL)
1x Advanced: Max 307.2 Kbps (DL/UL)
EDGE: Max 296 Kbps (DL)/Max 236.8 Kbps (UL)
GPRS: Max 107Kbps (DL)/Max 85.6 Kbps (UL)

Interface

Interface : RS232 (DB9 female connector) or
: RS485 (3 pin screw Terminal block)

Protection

RS232/RS485 port: 15KV ESD protection

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Voice

Tricodex, Half rate (HR), Full rate (FR), Enhanced Full rate (EFR)
Hands-free operation
(Echo suppression)
AMR, Half rate (HR), Full rate (FR)
Analog Audio Interface (**Optional**)

Power Supply

24V DC (Range : 9 to 36V DC)
Screw type 3 pin connector with 3.81mm pitch

Power consumption
0.8W @24V DC During no communication when network registered
1.6W @24V DC During data/voice mode

Note : Adapter not in scope of supply, Input 230V AC. Output 24V DC,1A

Environmental Conditions

Operating Temperature : -20° to 70°C
Storage Temperature : -40° to 85°C
Relative Humidity : upto 95% Rh non condensing

Mechanical

Enclosure : Metallic Enclosure with DIN rail mounting
Dimension : 94 x 80 x 34 mm (only enclosure)

LED Display

Network status, Power ON and Tx, Rx

GSM Modem Accessories

Antenna : 50Ω SMA Female Connector
: High Gain Antenna is available as option
SIM & Holder : Push Type. UIM/SIM 1.8V/3V
: Customer to provide suitable SIM Card

Environmental Tests

The product is designed to meet various EMI/EMC standards

Ordering Information: GSX1-232/485

GS11-232 : 2G Modem with RS232
GS11-485 : 2G Modem with RS485

GS81-232 : 4G Modem with RS232
GS81-485 : 4G Modem with RS485

Note: 4G model is for Indian frequency bands only. For usage of 4G model outside India, please contact San Telequip office.