

## SIMADO GFX11E 4G

4G VoLTE FCT with Battery Backup



- **Mobile Port:** 1 (To connect analog phone or fax machine)
- **FXS Port:** 1 (To connect to GSM/3G/4G network)
- **Control Architecture:** CMOS Micro-controller with Stored Program Control

### Technical Specifications:

SIMADO GFX11E is a specialized GSM FCT that enables critical communication during emergency situations such as elevator break-down and power cuts. GFX11E establishes communication link with the help center to allow a user in trouble to get immediate help. SIMADO GFX11E can be used in various application areas such as elevators, ATM Centers, arcades, hospitals, shopping malls and senior citizen's homes.

GSM MODULE	REGION	FREQUENCY
SIMADO GFX11 4G-E	Europe, Middle East, Africa, India	LTE FDD: B1/B3/B5/B7/B8/B20 LTE TDD: B38/B40/B41 WCDMA: B1/B5/B8, GSM: B3/B8
SIMADO GFX11 4G-AU	Australia	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8, GSM: B2/B3/B5/B8
SIMADO GFX11 4G-A	North America	LTE FDD: B2/B4/B12 WCDMA: B2/B4/B5
SIMADO GFX11 4G-V	Verizon (USA)	LTE FDD: B4/B13

### Automatic Fallback:

E Variants: LTE/WCDMA/GSM

AU Variants: LTE/WCDMA

A Variants: LTE/WCDMA

V Variants: LTE only - Fall back not supported

Note:

1. Fall-back functionality would not work if the network support of WCDMA/GSM is not available in the specific region/country.
2. Our 4G (LTE) antenna and modules do not support Band B42 and B43, used in Iran & Slovakia.
3. BCCH & Band selection is not supported.

GSM Engine Specifications	
Compliant	ETSI GSM Phase 2/2+
SIM Interface	1.8V, 3V
RF Transmission Power	Class 4 (2W) at GSM 850 and EGSM900 MHz band, Class 1(1W) at DCS1800 and PCS1900 MHz band, Class 3 (0.25W) at WCDMA 850/1900/2100
RF Sensitivity	Better than -102dBm at GSM850/ EGSM900/ DCS1800/ PCS1900, Better than -106dBm at WCDMA 850, Better than -108dBm at WCDMA 1900/2100
Speech Gain (Transmit and Receive)	Configurable

Antenna	
Antenna Type	Monopole Omni Directional Swivel Antenna
Antenna Gain	1/3 dBi
Antenna Connector	SMA (Male), 50Ω

Physical Parameters	
Supply Input	12VDC @1.25A (Actual consumption), Through External Adaptor (100-240VAC, 47-65Hz) supplied by Matrix
Power Consumption	5W (Typical)
Connector	Casio DC power Jack
Internal Battery	NI-MH AAA 7.2V/800mA
Battery Back-up	4 hours (idle mode) 2 hours (talking mode)
LED Indications	Battery (BAT), Power Supply (PWR), Network (NW), SIM (RDY), FXS Port (FXS)

Mechanical Parameters	
Dimensions (WxHxD)	13.35 x 19.8 x 4.46 cm (5.26" x 7.80" x 1.76")
Unit Weight	0.4 kg. Approx.
Shipping Weight	0.9 kg. Approx.
Mounting	Wall Mounting or Table-top

Operational Conditions	
Temperature	0°C to +45°C (34°F to 113°F)
Humidity	5-95% RH, non-condensing

GSM Frequency Band	
Quad Band	GSM 850, EGSM900, DCS1800, PCS1900
Tri Band	WCDMA 850/1900/2100 MHz

FXS Port Specifications	
Connection	RJ11
Pulse Dialing	10 PPS +/- 10%, Make/Break = 33:67ms
DTMF Dialing and Reception	ITU-T Q.23 and Q.24
Off Hook AC Impedance	600Ω
Loop Feed	35mA (Max.)
Loop Limit	270Ω (Excluding telephone)
On-Hook Voltage (Tip-Ring)	-48V nominal
Return Loss	>18dB
Longitudinal Balance	>40dB
Ringing Voltage	Trapezoidal: 55Vrms@25Hz
Caller ID Presentation	DTMF, FSK ITU-T V.23 and FSK Bellcore 202A
Answer Signaling	None, Polarity Reversal
Disconnect Signaling	None, Polarity Reversal and Open Loop Disconnect
Disconnect Signaling Time	500ms/Programmable Timer
Protection	Solid-state over voltage Secondary Protection

Storage Conditions	
Temperature	-40°C to +85°C (-40°F to 185°F)
Humidity	0-95% RH, non-condensing

## Software Features:

1. Allowed and Denied Numbers
2. Automatic Number Translation
3. Battery Backup During Power Failure
4. Call Divert
5. Call Duration Display
6. Call Progress Tones
7. Calling Line Identification Restriction (CLIR)
8. Emergency Number Dialing
9. Hotline
10. International Mobile Equipment Identity (IMEI)
11. Location Information Indication
12. Multi Stage Dialing
13. Ring Type
14. Security Code
15. Service Provider Lock
16. Short Message Service (SMS)

## ABOUT MATRIX

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