

SIMADO GFX11 4G
4G VoLTE FCT



- **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 GFX11 4G is a compact GSM fixed cellular terminal for voice applications, used to make and receive calls over GSM/3G/4G network while retaining the existing infrastructure. Organization can buy GSM FCT Device to have GSM Trunk facility for their conventional PBX. SIMADO GFX11 eliminates interconnection charges and provides substantial cost savings by turning all calls into mobile-to-mobile calls. It easily integrates with any PBX or telephone via GSM/3G/4G network. SIMADO GFX11 is ideal for small offices, remote project sites and retail shops for cost-effective and reliable communication.

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
LED Indications	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

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

Software Features:

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

ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology driven and customer focused organization, is committed to keep pace with the revolutions in security and telecom industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, IP Video Surveillance, Access Control and Time-Attendance. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 1000 system integrators, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.



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