



## TECHNICAL SPECIFICATIONS



### SIMADO GFX11E 4G – GSM (2G/3G/4G) Fixed Cellular Terminal for Voice Applications

SIMADO GFX11E is a specialized GSM<sup>#</sup> (2G/3G/4G) FCT that enables critical communication during emergency situations such as elevator breakdowns and power cuts. SIMADO GFX11E 4G establishes a communication link with the help center to allow a user in trouble to get immediate help. SIMADO GFX11E 4G can be used in various application areas such as elevators, ATM Centers, arcades, hospitals, shopping malls, and senior citizens’ homes.

| PRODUCT VARIANTS |   |
|------------------|---|
| SIMADO GFX11E 4G | GSM (2G/3G/4G) FCT for Emergency Applications |

| Parameters              | Specifications |
|-------------------------|----------------|
| <b>Mobile Port</b>      |                |
| GSM (2G/3G/4G) SIM Card | 1              |

|                              |  |
|------------------------------|--|
| <p>Frequency Bands</p>       | <p>LTE-FDD:<br/> B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B<br/> 20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41<br/> WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM:<br/> B2/B3/B5/B8</p>   |
| <p>RF Transmission Power</p> | <p>GSM850: Class 4 (33 dBm ±2 dB),<br/> EGSM900: Class 4 (33 dBm ±2 dB)<br/> DCS1800: Class 1 (30 dBm ±2 dB)<br/> PCS1900: Class 1 (30 dBm ±2 dB)<br/> GSM850 8-PSK: Class E2 (27 dBm ±3 dB)<br/> EGSM900 8-PSK: Class E2 (27 dBm ±3 dB)<br/> DCS1800 8-PSK: Class E2 (26 dBm ±3 dB)<br/> PCS1900 8-PSK: Class E2 (26 dBm ±3 dB)<br/> WCDMA: Class 3 (24 dBm +1/-3 dB)<br/> LTE-FDD: Class 3 (23 dBm ±2 dB)<br/> LTE-TDD: Class 3 (23 dBm ±2 dB)</p> |
| <p>RF Sensitivity</p>        | <p>LTE B1: -99.5 dBm (10 MHz)<br/> LTE B2: -99.9 dBm (10 MHz)<br/> LTE B3: -99.7 dBm (10 MHz)<br/> LTE B4: -99.7 dBm (10 MHz)<br/> LTE B5: -99.9 dBm (10 MHz)<br/> LTE B7: -99.2 dBm (10 MHz)<br/> LTE B8: -99.8 dBm (10 MHz)<br/> LTE B12: -99.8 dBm (10 MHz)<br/> LTE B13: -99.5 dBm (10 MHz)<br/> LTE B18: -100 dBm (10 MHz)<br/> LTE B19: -99.9 dBm (10 MHz)<br/> LTE B20: -99.8 dBm (10 MHz)<br/> LTE B25: -100 dBm (10 MHz)</p>                |

|               |  |
|---------------|--|
|               | LTE B26: -99.5 dBm (10 MHz)<br>LTE B28: -99.6 dBm (10 MHz)<br>LTE B38: -99 dBm (10 MHz)<br>LTE B39: -99.5 dBm (10 MHz)<br>LTE B40: -99.2 dBm (10 MHz)<br>LTE B41: -99 dBm (10 MHz)<br>WCDMA B1: -109.2 dBm<br>WCDMA B2: -110 dBm<br>WCDMA B4: -109.5 dBm<br>WCDMA B5: -110.4 dBm<br>WCDMA B6: -110.5 dBm<br>WCDMA B8: -109.5 dBm<br>WCDMA B19: -110.1 dBm<br>GSM850: -108 dBm<br>EGSM900: -108 dBmDCS1800: -107.4 dBm<br>PCS1900: -107.5 dBm |
| SIM Interface | 1.8, 3V SIM Interface  |
| Compliance    | ETSI GSM Phase2/2+   |

| FXS Port                   |                                      |
|----------------------------|--------------------------------------|
| Connector                  | 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 and FSK ITU-T V.23 and FSK Bellcore 202A           |
| Answering and Disconnect Signaling | Polarity Reversal for Call Connect/Disconnect Signaling |
| Protection                         | Solid-state over voltage Secondary Protection           |

| Battery          |                      |
|------------------|----------------------|
| Internal Battery | NI-MH AAA 7.2V/800mA |

| Power Supply      |   |
|-------------------|---|
| Input             | 12VDC@1.25A<br>External Power Adapter (100-240 VAC, 47-63Hz) supplied by Matrix |
| Power Consumption | 5W (Typical)  |
| Connector         | Casio DC Power Jack   |
| Battery Back-up   | 4 hours (idle mode)<br>2 hours (talking mode)                                   |
| LED Indications   | Battery (BAT), Power Supply (PWR), Network (NW), SIM (RDY), FXS Port (FXS)      |

| Mechanical       |  |
|------------------|--|
| Dimension (mm)   | Width 133.5 x Height 198 x Depth 44.6<br>(5.26"x 7.80"x 1.76") |
| Mounting Options | Wall Mount and Tabletop  |
| Unit Weight      | 0.4 kg. Approx.  |
| Shipping Weight  | 0.9 kg. Approx.  |

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

| Environmental Conditions |                                  |
|--------------------------|----------------------------------|
| Storage Temperature      | -40°C to +85°C (-40°F to +185°F) |

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

**#: For compatibility and use of Matrix GSM products in Russia and Iran province connect with Matrix sales or technical support team**

**Note: Specifications are subject to change without prior notice**

## **ABOUT MATRIX**

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern organizations. Matrix offers a comprehensive range of solutions for IP Video Surveillance, Access Control, Time-Attendance, and Telecom applications. The solutions are designed to meet the communication and security requirements of large enterprises having offices in multiple locations, SMEs, and SMBs.

As an innovative, technology-driven, and customer-focused organization, Matrix is committed to keeping pace with the revolutions in the Security and Telecom industries. With around 40% of its human resources dedicated to the development of new products, Matrix has launched over 60 cutting-edge products and solutions.

IP Video Surveillance includes solutions like Video Management Systems, Network Video Recorders, and IP Cameras. Likewise, solutions in Access Control and Time-Attendance include Visitor Management Solutions, Elevator Access Control, Panels, Door Controllers, and Readers.

We offer Telecom Solutions such as Unified Communications, IP-PBX, Universal Media Gateways, VoIP and GSM Gateways, and Communication Endpoints. All these solutions are feature-rich, reliable, and conform to international standards.



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