



F221m

Fixed Cellular Terminal for residential applications

Access to the GSM benefits

The Ericsson Fixed Cellular terminal Triple Band for residential applications – F221m – is the best quality solution for providing access to fixed services either when no traditional fixed infrastructure is available or if an additional phone line is required.

With the F221m terminal, the user does not have to wait for the fixed telephone network infrastructure to be developed as long as GSM services are available in the area.

Plug-and-Play

The F221m terminal can be easily installed by the end-user following the instructions provided in the Installation Guide.

Install a terminal, do the cabling from the F221m to any location in your house and you will be ready to connect and use your standard telephones, fax machines and modems in the usual way.

Highest standards

The latest technology breakthroughs have been developed and incorporated in the terminal in such a way that they make it ideal for everyday communications. For voice transmission, the Enhanced Full Rate (EFR) speech codec perfectly emulates the fixed-line voice quality.

For data transmission, the F221m terminal features the latest GSM Internet services access technology: HSCSD and GPRS provides a high wireless data rates transmission guarantee and the possibility of always being connected to the net. V.90 data transmission over the line interface qualifies the terminal to support analogue modems, making it ideal for the Internet environment.

Features

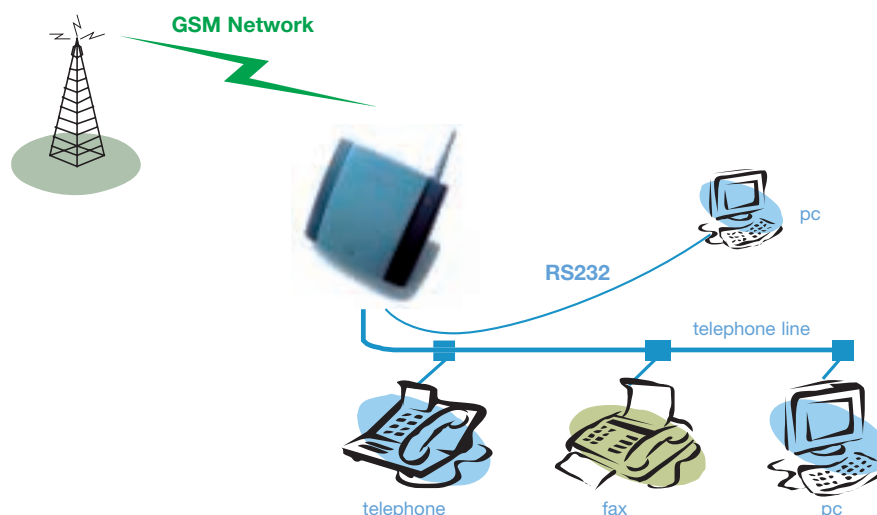
The F221m terminal allows automatic network searching between GSM 900, GSM 1800 and GSM 1900 frequencies, which means worldwide coverage in the GSM network.

The F221m terminal offers a broad range of GSM services such as Prepaid Subscription, Calling Line Identification, Call Waiting, Call Barring, Call Forwarding, SMS capability, Multiparty Conference Calls or Alternate Line Services.

The F221m is equipped with an embedded modem that is available over the RS232 port for PC Fax/Data services and SMS.

The F221m provides a built-in SMS supervision function that allows remote control and supervision of the unit.

F221m TERMINAL WORKING ENVIRONMENT



TECHNICAL SPECIFICATIONS

GSM AIR INTERFACE

Frequency bands

Triple-Band E-GSM 900, GSM 1800 and GSM 1900

E-GSM 900

Frequencies: TX 880-915 MHz, RX 925-960 MHz
RF power: Maximum 2W (33 dBm), Power class 4

GSM 1800

Frequencies: TX 1710-1785 MHz, RX 1805-1880 MHz
RF power: Maximum 1W (30 dBm), Power class 1

GSM 1900

Frequencies: TX 1850-1910 MHz, RX 1930-1990 MHz
RF power: Maximum 1W (30 dBm), Power class 1

Data capabilities: Multislot GPRS Class B and HSCSD (Data rates depend on GSM operator services)

Speech codecs: Half Rate, Full Rate and Enhanced Full Rate

RS232 INTERFACE

Data services: All applicable GSM 7.07 AT commands
SMS: All applicable GSM 7.05 AT commands

TELEPHONE INTERFACE (POTS)

Telephone: Speech
Analog fax: Group 3 Fax transmission
Analog data: V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.23, V.21, Bell 212A & 103
CLI: ETSI DTMF and V.23 FSK; Bellcore FSK
Line impedance: 600 ohm (default)
Loop current: 25 mA (off-hook)
Open loop voltage: 48 V (on-hook)
Loop resistance: < 650 ohm (off-hook)
Ringing voltage: 45 Vrms
Ring load: 3 REN; up to 3 telephone devices

FCT INTERFACES

Telephone: RJ11 (a/b 2-wire line); POTS interface
RS232 port: DB-9 Serial COM interface
GSM antenna: SMA plug-female (50 ohm)
SIM card: Small plug-in card, 3V or 5V type
Input Vdc: 7.5 Vdc [$\pm 0.4V$]; 0.8 A (jack: EIAJ RC-5320A class 4, male)

ANTENNA (included)

Frequency bands: Triple-Band E-GSM 900, GSM 1800 and GSM 1900
Characteristics: Omnidirectional

POWER SUPPLY (included)

AC input: 100 - 240 Vac; 47-63Hz 3 pole AC inlet connector (IEC 320 power inlet)
Available plugs: EU, UK, USA, and AU

ENVIRONMENTAL

Operating temperature: -10°C to +55°C
Operating humidity: 20 - 75%
Storage temperature: -40°C to +85°C
Storage humidity: 5 - 95%

ACCESSORIES

Battery: Rechargeable 6 Vdc 1.2/1.3 Ah Lead-acid battery, 2.5 hours conversation, 13.5 hours stand-by
External antennas: Outdoor omnidirectional and directional
DC Power supply: Input: 12-24 Vdc; Output: 7.5 Vdc
AA Battery holder

PRODUCT PRESENTATION

Basic kit: F221m residential, power supply, line cable, wall mount bracket, internal antenna, user guide
FCT size: Height 148 mm, Width 165 mm, Depth 45 mm
FCT weight: 370 grams