

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.

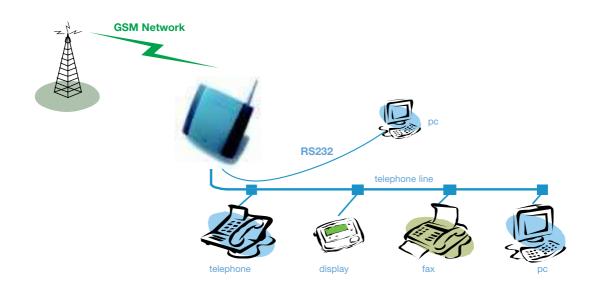
The F221m terminal offers a broad range of GSM services such as Prepaid Subscription, Calling Line Identification, Call Waiting, Call Barring, Call Forwarding, SMS capability, Multiparty Conference Calls or Alternate Line Services.

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: RF power:

GSM 1800 Frequencies:

RF power:

GSM 1900 Frequencies:

RF power:

Data capabilities:

Speech codecs:

RS232 INTERFACE

Data services: SMS:

TELEPHONE INTERFACE (POTS) Speech

Telephone: Analog fax: Analog data:

CLI: Line impedance: Loop current: Open loop voltage: Loop resistance: Ringing voltage: Ring load:

Group 3 Fax transmission V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.23, V.21, Bell 212A & 103 ETSI DTMF and V.23 FSK; Bellcore FSK 600 ohm (default) 25 mA (off-hook) 48 V (on-hook) < 650 ohm (off-hook) 45 Vrms 3 REN; up to 3 telephone devices

TX 880-915 MHz, RX 925-960 MHz

Maximum 2W (33 dBm), Power class 4

TX 1710-1785 MHz, RX 1805-1880 MHz

Maximum 1W (30 dBm), Power class 1

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

Multislot GPRS Class B and HSCSD (Data

Half Rate, Full Rate and Enhanced Full Rate

rates depend on GSM operator services)

All applicable GSM 7.07 AT commands

All applicable GSM 7.05 AT commands

FCT INTERFACES

Telephone: RS232 port: GSM antenna: SIM card: Input Vdc:

RJ11 (a/b 2-wire line); POTS interface DB-9 Serial COM interface SMA plug-female (50Ω) Small plug-in card, 3V or 5V type 7.5 Vdc [±0.4V]; 0.8 A (jack: EIAJ RC-5320A class 4, male)

Triple-Band E-GSM 900,GSM 1800 and

GSM 1900

20 – 75%

5 - 95%

-40°C to +85°C

Omnidirectional

ANTENNA (included)

Frequency bands: Characteristics:

POWER SUPPLY (included)

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

ENVIRONMENTAL

Operating temperature: -10°C to +55°C Operating humidity: Storage temperature: Storage humidity:

ACCESSORIES

DA20 Display:	CLI, SMS receiving and other FCT services
Battery:	Rechargeable 6 Vdc 1.2/1.3 Ah Lead-acid
	battery
External antennas:	Outdoor omnidirectional and directional
DC Power supply:	Input: 12-24 Vdc; Output: 7.5 Vdc

PRODUCT PRESENTATION Basi

F221m residential, power supply,
line cable, wall mount bracket,
internal antenna, user guide
Height 148 mm, Width 165 mm, Depth 45 mm
300 grams
i

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F251m

Fixed Cellular Terminal for Small office/Home office (SoHo) applications

Flexible

The Ericsson Fixed Cellular Terminal Triple Band – F251m – is a flexible and cost-effective solution for connecting your telephone system to the digital wireless GSM network.

The F251m is a plug-and-play GSM terminal that provides standard telephone services to locations that do not have access to fixed telephone lines or need an additional communications line.

Install a terminal, run cabling from the F251m to any place within your Small office/Home office (SoHo) and you will be ready to connect and use your standard telephones, fax machines and modems in the usual way. The F251m terminal becomes the best solution for any way of approaching a SoHo, including PBX compatibility.

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 F251m terminal features the latest GSM Internet services access technology: HSCSD and GPRS, which means high wireless data rates transmission guarantee and the opportunity 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

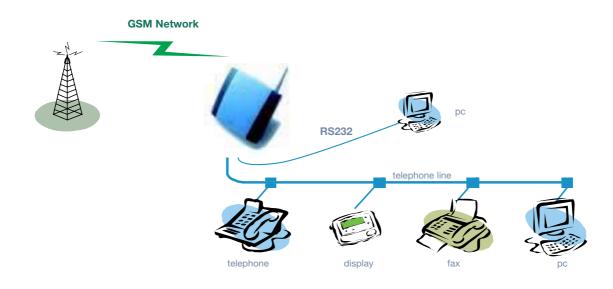
The F251m terminal allows automatic network searching between GSM 900, GSM 1800 and GSM 1900 frequencies, which means worldwide coverage in the GSM network.

The F251m 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 F251m terminal is equipped with an embedded modem that is available over the RS232 port for PC Fax/Data services and SMS.

The F251m terminal provides a built-in SMS supervision function that allows remote control and supervision of the unit.





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
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Data capabilities:	Multislot GPRS Class B and HSCSD (Data
	rates depend on GSM operator services)
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Speech codecs:	Half Rate, Full Rate and Enhanced Full Rate
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RS232 INTERFACE	

Data services:

SMS:

TELEPHONE INTERFACE (POTS)

Telephone: Analog fax: Analog data: CLI: Line impedance: Loop current: Open loop voltage: Loop resistance: Ringing voltage: Ring load:

Speech Group 3 Fax transmission V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.23, V.21, Bell 212A & 103 ETSI DTMF and V.23 FSK; Bellcore FSK 600 ohm (default) 25 mA (off-hook) 48 V (on-hook) < 650 ohm (off-hook) 45 Vrms 3 REN; up to 3 telephone devices Call control signalling: Polarity reversal and loop-break

All applicable GSM 7.07 AT commands

All applicable GSM 7.05 AT commands

FCT INTERFACES

Telephone: RS232 port: GSM antenna: SIM card: Input Vdc:

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

ANTENNA (included)

Frequency bands: Characteristics:

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

100 - 240 Vac; 47 - 63 Hz 3 pole AC inlet

connector (IEC 320 power inlet)

EU, UK, USA, and AU

20 - 75%

5 - 95%

-40°C to +85°C

POWER SUPPLY (included)

AC input:

Available plugs:

ENVIRONMENTAL

Operating temperature: -10°C to +55°C Operating humidity: Storage temperature: Storage humidity:

ACCESSORIES

DA20 Display: CLI, SMS receiving and other FCT services Rechargeable 6 Vdc 1.2/1.3 Ah Lead-acid Battery: 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 FI12: ISDN AA Battery holder

PRODUCT PRESENTATION

Basic kit:	F251m business, 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

Visit us on our website www.ericsson.com/wireless/products/fixed

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