



CellRoute-GPRS

Fixed Wireless Terminal



CellRoute-GPRS has been developed to enable major network operators to provide Fixed Wireless Access to emerging markets around the world.

In countries where having a fixed line is either an expensive option or network infrastructure does not exist, the CellRoute can provide fixed line functionality over the GSM network.

CellRoute-GPRS provides users with high quality voice using EFR (Enhanced Full Rate) codecs and has a data link rate of up to 85.6kbps using GPRS for Email and Internet access.

The CellRoute-GPRS can be self-installed by the end user, making the provisioning cycle simple and reducing costs for the network operator.

The unit has an integrated lithium battery to cater for mains power outages. 11 hours of standby time is provided with a talk time of up to 2 hours.

Further options include:

GPRS Class 10 (4rx + 2tx)

GPRS Class 10 (3rx + 2tx)



Dealer's Stamp

... a global vision of customer interconnection

CellRoute-GPRS Technical Specification

Telephony Interface

Call Control	DTMF
Line Voltage	48V on hook (36V on mains fail)
Loop Current	40mA off hook (20mA on mains fail)
Line impedance	600-ohm complex
Ring Voltage	70Vrms
Ring Load	REN 4
CLIP	Bellcore FSK

GSM Interface

GSM Module	Cinterion MC55i
Bands	GSM 850 / 900 / 1800 / 1900 MHz GSM Phase 2/2+
Transmit Power	Class 4 (2W) for EGSM 850MHz Class 4 (2W) for E-GSM 900MHz Class 1 (1W) for GSM 1800MHz Class 1 (1W) for GSM 1900MHz
Speech Codecs	Half Rate (ETS 06.20) Full Rate (ETS 06.10) Enhanced Full Rate (ETS 06.50 / 06.60 / 06.80) Adaptive multi-rate (AMR)
Data Rate	Up to 85.6 kbps via GPRS
SIM Card	3V
Antenna	Integral Omni directional Antenna with SMA connector for external antenna option

Physical Interfaces

Telephone	Analogue / RJ11 or BT603 option
Data Port	RS232 / RJ45 with DB-9 converter
GSM Antenna	Gold plated SMA male
SIM Card	3V Small card retained under rear panel
Indication	2 x LED indication for battery / Transmission Status

Approvals

CE Certification to R & TTE directive 1999/S/SEC

GSM Certifications:

- ETS 300 607-1 Digital Cellular Telecommunications system
- EN 301 419-1 Global System for Mobile communication
- ETS 300 342-1 Radio Equipment and Systems

Power Supplies

Primary	110-240Vac @ 47-63Hz
Secondary	3.7V 1700mAh Lithium rechargeable battery with auto switch over on mains failure
Performance	11 hours Standby time (subject to humidity and temperature) Up to 2 hours Talk time (subject to humidity and temperature)

Features Overview

High Ringer Equivalence POTS Interface supports up to 4 additional extensions

Highly compatible POTS & PABX interface

Integral Battery Back-up

Bellcore Caller Line ID Presentation

GSM Network features supported (subject to network support)

Selectable Dial tone and Ring cadences

RS232 Data Port for emails/web and PC faxes.

SIM lock

Network lock

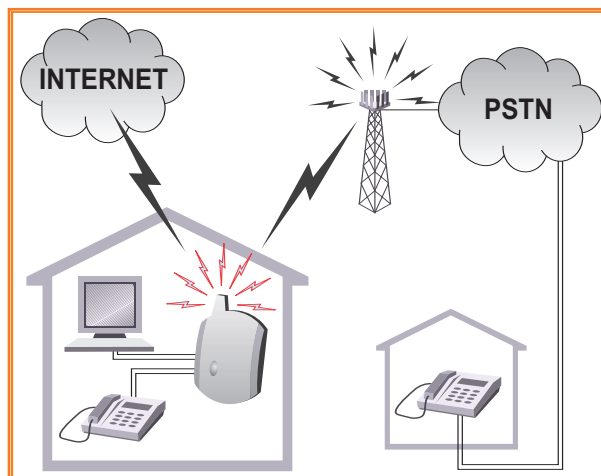
Remote Software Upgrades

Off-hook Howler

External Antenna facility

Physical Specification

Height	150 mm
Width	122 mm
Depth	42 mm
Weight	460gm



For further information on this and other TelecomFM products and services, please contact TelecomFM

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