



FUSION 230 LEAST COST ROUTER

ENJOY HUGE CALL-COST SAVINGS WITH THE FUSION 230

Today's communications landscape is undoubtedly dominated by cellular technology. Cell phones have captured the consumer market across the world, bringing with them convenience and flexibility. As a result, the majority of telephone calls globally are made to cell phones, necessitating that telephone traffic is routed between different networks, depending on where the call originates. Telephone networks call this traffic between themselves interconnect traffic and regularly bill each other for the interconnect traffic that they take over from the other network. This often results in added costs to telephone users, which escalate whenever traffic is routed from one network to another.

The Psitek **Fusion** range has been developed to assist in reducing costs associated with interconnect traffic. By installing a **Fusion**, Psitek's customers ensure their telephone call is routed optimally, staying within a single network for as long as possible. The practice of routing telephone calls within a single network for cost saving is referred to as 'least cost routing'.

Escalating tariffs result in soaring phone bills - a concern for companies and private phone owners alike. Psitek's latest addition to the **Fusion** range, the **Fusion 230**, tackles this problem. This state-of-the-art least cost router routes both GSM and fixed line calls optimally - radically reducing call costs. The **Fusion 230** is suitable for a variety of environments including but not limited to corporate, SOHO or residential. PABX-compliant, it can be used in conjunction with a PABX but works just as well stand-alone.

WHAT MAKES THE FUSION 230 THE IDEAL LEAST COST ROUTER?

Most significant is the cost-saving factor which the **Fusion 230** offers. By routing calls via the most optimal channel, substantial savings can be enjoyed on both fixed line (PSTN) and cellular (GSM) voice calls - making it the least cost router of choice.

The **Fusion 230** makes use of an earthed power supply that is easily obtainable from Psitek and other sources. Connected via a barrel jack, the power supply eliminates the need to physically 'earth' the unit. This makes for quicker and more convenient installation.

The quick-reference LEDs reflect the status of the **Fusion 230**, colour-coded for easy monitoring at a glance. Keeping up with market trends, the unit has a USB port. What's more, the sleek design of the unit incorporates a 'push-to-eject' SIM card holder.

REMOTE MANAGEMENT WHEREVER YOU ARE

Designed to compliment the **Fusion 230's** feature list, the Psitek Management Centre (PMC) works in conjunction to create a seamless least cost routing solution.

The PMC is a Psitek software solution, designed to streamline the operational and administrative processes of remotely managing multiple points of presence. This invaluable configuration and management tool affords users complete geographic flexibility, and can be used to manage:

- Activity reports
- Call data records
- Call routing tables
- Status reports, etc.

Not only does the **Fusion 230** route out-going calls, but cost-savings can also be enjoyed on incoming calls. This is where the call-back functionality comes into play. A range of call back numbers can be pre-defined in a call routing table. When any of these numbers call into the **Fusion 230**, the **Fusion 230** recognises the number and immediately terminates the call. It then returns the call to the number that dialled in. In this way, the pre-defined numbers are also routed to the most cost-effective line, reducing costs. This is particularly advantageous in corporate set-ups where sales representatives in the field call the main line on the company's account.

COMPREHENSIVE AFTER-SALES SUPPORT

Support plays an important role in Psitek's solution offering. All Psitek customers enjoy the benefit of a comprehensive one year warranty, as well as thorough after-sales support - wherever they are based. With the accredited Three Squares Service Centres located around the globe, customers always have access to fast, convenient and reliable in-country support. Psitek-accredited Three Squares Service Centres are qualified to repair **Fusion 230** units on Psitek's behalf, whether or not the unit is under warranty. **Fusion 230** owners can also rely on knowledgeable support centre agents to help them with any queries they may have.

TECHNICAL SPECIFICATIONS

Power Requirements

DC Input Voltage Range	10V to 16V DC
DC Input Protection	Reverse polarity, over voltage and over-current
DC Input Connector	2.1mm barrel DC jack
Power Consumption at 12V DC	GSM call active: 260mA (PCL level 5) PSTN call active: 200mA Standby current: 100mA Provided via earthed PSU
Product Earthing	

Environmental Specification

Operating Temperature	0°C to 50°C
Humidity	Maximum RH 95% at 35°C (non condensing)
Storage Temperature	-20°C to 60°C

Mechanical Specification

Dimensions (L x W x H)	152mm (L) x 97mm (W) x 35mm (H)
Weight	320g (excluding PSU and packaging)
Material	Aluminium extrusion with plastic end-plates
LED Indicators	Status, GSM, Line, Phone

GSM Specification

GSM Output	850MHz	Class 4, 2W GSM
	900MHz	Class 4, 2W EGSM
	1800MHz	Class 1, 1W DCS
	1900MHz	Class 1, 1W PCS
SIM Interface	1.8V or 3V mini SIM	
Antenna Termination	SMA	
Antenna Type	2dBi omnidirectional stubby antenna	

Line (PSTN / FXO) Interface

Line Connector	Standard RJ11
Line Protection	Secondary over-voltage / over-current protection (IEC60950-1)
Line Impedance	600 Ω and CTR21 complex impedance supported
Dial Type	Tone (DTMF) or pulse
Dial Tone Detection	Programmable
Caller Line ID Detection	FSK (ETS 300 778)

Phone (POTS / FXS) interface

Line Connector	Standard RJ11
Line Protection	Secondary over-voltage / over-current protection
Line Impedance	600 Ω and CTR21 complex impedance supported
Line Feed	48V on-hook, 22.3mA / 30mA off-hook
Line Reversals	Call start, call end, unsuccessful call, incoming call
Line Length	100m internal use only
Ringing Voltage	50Vrms into 2 REN (trapezoidal)
Dial Detection	Tone (DTMF)
Dial Tone Generation	Programmable
Caller Line ID Generation	FSK between first and second ring (ETS 300 778, ETS 300 659)

Data Interface

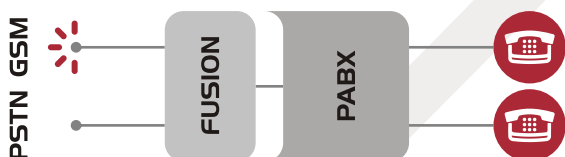
Data Port	USB 2.0 with USB-B connector
GPRS	GPRS Class 10

Management Interfaces

Local Configuration	Windows configuration tool
Remote Management	Psitek Management Centre GPRS, SMS and CSD data bearers No calls, no network, status reports Remote firmware upgrade & configuration

DEPLOYMENT

PBX ENVIRONMENT



STAND ALONE

