



# iRG 15compact Remote Gateway

The **iRG 15compact** is a low-cost, compact Broadband VSAT that is scalable in both performance and capability, making it a universal solution for businesses of all sizes and growth stages.

This user-friendly terminal adapts to your changing needs, allowing you to seamlessly upgrade system capabilities over satellite using simple software "key." This scalability allows you to make a minimal hardware investment and later move to a more powerful solution without having to purchase additional hardware.

The **iRG 15compact** is a DVB standard-based solution that employs advanced technologies to offer unparalleled efficiency and functionality. The terminal supports turbo codes, dual continuous and burst mode operation and data rates of up to 512Kbps. It has an advanced set of networking capabilities, including Quality of Service and acceleration.

The **iRG 15compact** broadband solution is designed for small and medium enterprises, corporate and government offices, financial institutions, Internet cafés and ISP points of presence. The terminal is ideal for:

- \* Solar Applications
- \* Fast Internet Access
- \* Voice over IP Telephony
- \* Videoconferencing
- \* Interactive Distance Learning
- \* VPN (secure) Applications
- \* Reliable Business-To-Business (B2B)
- \* CRM
- \* IP Multicast Applications
- \* Telemedicine
- \* Terrestrial Backup
- \* Governmental & Military Applications



The **iRG 15compact** comes equipped with a 10/100 Base T Ethernet adapter for direct connection to a LAN, WLL, ADSL and other last mile interface equipment. The terminal has low power consumption and designed for smooth operation with solar power systems.

## **InterSKY™ iRG 15compact Technical Specifications**

### **Indoor Unit**

Ext. AC Power	100-240V, 60/50Hz, up to 3A
DC power	24 V DC /3A (6A available for higher power)
LAN Interface	Ethernet (IEEE 802.3), 10/100BaseT, Autodetect
Operating System	VxWorks
L-Band Input/Output Connectors	F-Connector, 75 Ohm
Dimensions	250 x 205 x 40 (W x D x H) mm
Weight (with power supply)	1,5 Kg.
Management Console	RS232 - EIA/TIA-232 (D-type 9pin), Telnet RG-45

### **Transmitter**

IF Range	L-band (950-1525 MHz)
Access	Dynamic MF-TDMA, BM-FDMA, DAMA & Bandwidth On Demand
Modulation	8PSK, QPSK (SQRT Raised Cosine, alpha=0.35)
Coding	Convolutional Code R=1/2, 3/4 Turbo Code (DVB-RCS) R=3/4@QPSK, R=2/3@8PSK
Information Rate	Up to 512 Kbps (Adjustable according to the key license)
Signal Level	-45 to 0 dBm
Transmission Type	Continuous and Burst
Reference Stability	+/- 1 ppm (optional +/- 0.2 ppm )

### **Receiver**

IF Range	L-band (950-2150 MHz)
Access	DVB/S broadcast (ETS 300 421)
Modulation	Packed/Unpacked mode of MPE over DVB-S MPEG2-TS
Coding	QPSK (as per DVB-S) Convolution Code (rates 1/2, 2/3, 3/4, 5/6, 6/7, 7/8) Concatenated with Reed-Solomon (188/204)
Channel Rate	1 to 45 Msp/s
Information Rate	1 to 72 Mbps
Signal Level	-65 to -35 dBm

### **Outdoor Unit**

RF Frequency Band	C, Extended C, Ku, Extended Ku, Ka
Transmit level	Up to 2 Watt Higher power available upon request
Receiver	Low-cost Standard DRO LNB
Power Supply	24 VDC /2A, Supplied via RF Cable
Frequency Reference	10 MHz, Supplied via RF Cable
LNB Power and Signaling	Switchable 13/18VDC up to 350 mA, 22 KHz

### **Standard Compliance**

Safety	TUV/cTUVus; CE
EMI/EMC	FCC part 15, Class B EN 55022, EN 55024, EN 61000 AS/NZS CISPR 22
Standard Conformity	DVB-S, IESS-308, ETSI TBR

### **Environmental Conditions**

#### **Indoor Unit**

Operating Temperature	0° to +40° C
Storage Temperature	-25° to +85° C
Humidity	5% to 95% Non-Condensing
Altitude	Up to 10,000 Feet

#### **Outdoor Unit**

Operating Temperature	-40° to +55° C
Storage Temperature	-40° to +70° C
Relative humidity	Up to 100%
Altitude	Up to 10,000 Feet

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