### *Overview*

The **novra** SG75 can cost effectively bring high speed connectivity to a corporate LAN and an entire organization. It is designed for organizations requiring routing, caching and distribution capabilities. The SG75 combines legacy return channel management with the superior throughput performance and flexibility of **novra's** S75 DVB-Satellite receiver technology into a single cost effective broadband gateway solution. It is standards-compliant and easily manageable through a very intuitive web browser interface. Monitoring and managing of the SG75 can be conducted remotely. As a broadband gateway it has a variety of available features such as network address translation, IP aliasing, dynamic and static routing capabilities using RIP V1, RIP V2, OSPF, and IGMP. On the return channel it supports demand dial, PPP, PPTP, modem, router, SCPC VSAT.

Applications

The SG75 is a standalone appliance that acts as a broadband gateway for any local area network in a corporate setting, school, institution, ISP, or office. By receiving DVB over satellite, it provides a high-speed forward data path to the LAN, capable of a sustained data rate of over 40 Mbps. The return channel manager supports a variety of return path options. The SG75 is applied in the same manner as a TCP/IP router, but provides the advantage of broadband connectivity.

Features

- Address Translation
- Web Based Configuration
- 40+ Mbps Sustained Throughput
- Remote Monitoring and Management
- Compatible with the TCP/IP Protocol Suite
- Support for Dynamic and Static Routing Protocols
- DVB Compliant RJ45 10/100BaseT Ethernet Interface
- PID Filtering or Unlimited PIDs   Application Transparent
- Host Based Processing for Advanced Flexibility, Functionality and remote Upgrades
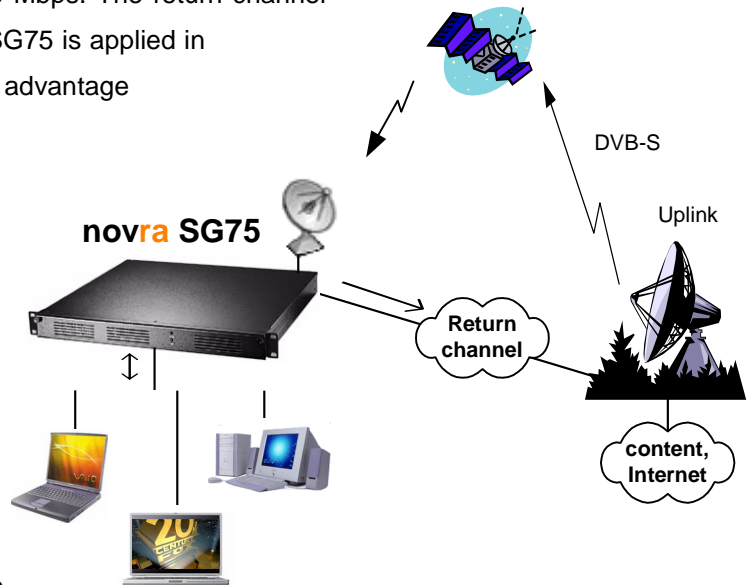
For additional information or details on **novra's** product offering, please contact us at:

North American Corporate Headquarters
1100 - 330 St Mary Avenue
Winnipeg, Manitoba, Canada R3C 3Z5
www.novra.com

tel + 1.204.989.4724
fax + 1.204.989.4640

info@novra.com

RF Tuner

Receiving Frequency: 950 to 2150 MHz
Frequency Acquisition: ± 50% Symbol Rate up to ±10MHz
Input Impedance: 75 ohms
Connector: F-Type

Demodulation

QPSK

Symbol Rates: 1 - 45 Msps - Variable
Data Rate: 40+ Mbps
Viterbi / Reed-Solomon Decoding
Viterbi Inner Code:
K=7, R=1/2, 2/3, 3/4, 5/6, 7/8
Reed-Solomon Decoding: 204, 188, T=8
Deinterleaving: Interleaving Depth = 12

LNB Power and Control

LNB Supply Voltage: Selectable 13V, 18V or Off
LNB Control: 22 kHz Tone
LNB Supply Current: 250mA, 400mA*

Physical Interfaces

Ethernet 100 base-T (RJ45)
RS-232 Serial Interface*
Internal Modem
DVB-S Input RF(F-Connector)

Physical / Environmental

Height: 1.75 in.   (44 mm)
Width: 19.00 in. (482.6 mm)
Depth: 15.70 in. (390 mm)
Operating Temperature: 0 C to 60 C
Storage Temperature: -55 C to 85 C
Operating Humidity: 10 - 90% Non-Condensing

* = Optional

Management Interfaces

Web Interface
ssh
SNMP
RS232 Serial Interface*

Configuration

System: Logging Host, NTP, Manual Date/Time Control
Receiver: Symbol Rate, L-band Frequency, LNB Power,
Polarization, Band, PID List
NIC Configuration: IP Address, Netmask, Alias IP Address,
State, MTU, Multicast Enable
Transponder: Polarization, Symbol Rate, Frequency, FEC
Static Routing
Return Path: PPP and PPTP Settings
NAT Enable

Return Paths

LAN/Router
PPP/Modem
PPTP over Ethernet
PPTP over PPP
Demand Dial
SCPC VSAT*

Monitoring

Data Transfer Rate, Signal Strength, Signal Lock, VIterbi,
LNB Offset
Error Status: Channel BER, Viterbi BER
SNMP
Local Logging and to a configurable log host

Standards/Regulatory

DVB Compliant
ETSI 301.192 Compliant
IEEE 802.3u 10 / 100 Mbps
FCC / Industry Canada
CE Compliant