

# Novra S75 DVB-IP Data Receiver



## Overview

As the newest member of our DVB family of receivers, Novra's second generation S75 DVB-IP Data Receiver brings superior throughput performance and flexibility to a very cost-effective solution. The S75 has been designed to enable delivery of the next generation of broadband services. Its RJ45 Ethernet connection provides powerful and distinct installation, performance, and maintenance advantages over other form factors. Installation of the S75 is easy and non-invasive, as the host machine does not need to be opened, nor are any drivers required. The S75 works with any operating system and makes the received data available to any host on the LAN.

## Applications

The S75 is perfectly suited for consumer or small-medium enterprise use, delivering IP-based applications like IPTV, weather imaging and data, distance education, digital signage, file distribution, and Internet over satellite to a single computer or to a network of computers.

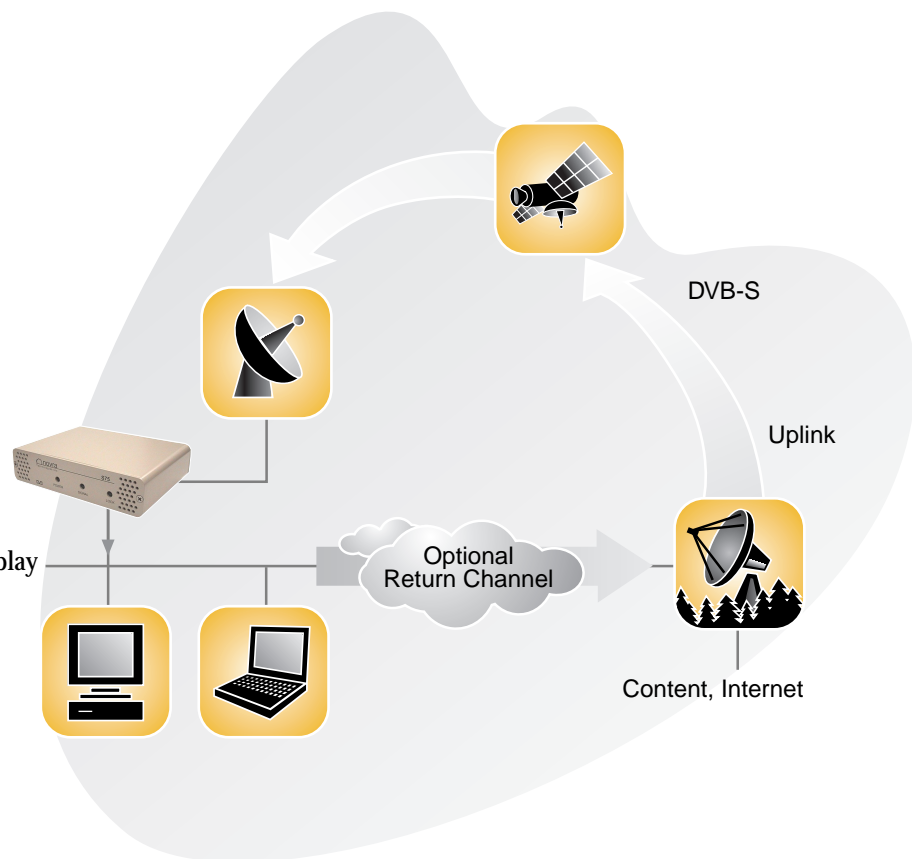
## Features

- Compatible with TCP/IP Protocol Suite
- DVB Compliant
- 55 Mbps Sustained Throughput
- RJ45 10/100 Base-T Ethernet Interface
- Application Transparent
- Small Footprint
- IGMP
- Exceptional Flexibility. Through optional firmware loads, the S75 will support delivery of Broadcast TV services.

(Refer to S75 Video Data Receiver data sheet)

## Enhanced Features

- Front-Panel, Multi-LED Signal Strength Display
- Downloadable Firmware
- Reliable Fan-Less Operation



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# Technical Specifications **Novra** S75 Receiver

## RF Tuner

- Receiving Frequency: 950 to 2150 MHz
- Frequency Acquisition:  $\pm 50\%$  Symbol Rate up to  $\pm 10$  MHz
- Input Signal Level: -65 dBm to -25 dBm

## QPSK

- Symbol Rate: 1.5 to 45 Msps
- Data Rate: 55 Mbps
- Root-Raise Cosine Filter with Roll-off 0.35
- DVB Signalling

## FEC

- Decoding: Viterbi/Reed-Solomon
- 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, 21V or Off
- LNB Control: 22 kHz Tone
- LNB Supply Current: 400 mA with Short Circuit and Surge Protection

## Configuration

- IP Address Configuration
- PID Selection
- LNB Power
- Transponder Settings: Symbol Rate, Frequency, Polarization, Band, Power
- Management Console Application Available as an Executable for MS Windows
- Static and Dynamic Library available for OEM Configuration Console

## Status Monitoring

- Signal Strength
- Signal Lock, Data Lock
- Error status: Viterbi BER, Uncorrectable Errors

## Operating Systems

- Once Configured, is OS Independent

## Status Indicators

- Power: Red LED
- Signal: Green LED or Optional multi-LED Signal Strength Display on Front Panel
- Lock: Green LED
- Ethernet Link and Transmit

## Hardware Capabilities

- Multiprotocol Encapsulation (MPE)
- PID Filters: 16
- Internal Hardware Watchdog
- Non-Volatile Configuration Storage
- Remote firmware download

## Physical Interfaces

- RF Input Connector: F-Type, 75 ohms
- Ethernet 10/100 Base-T LAN Interface: RJ-45

## Physical/Environmental

- Height: 1.23 in (3.12 cm)
- Width: 5.22 in (13.27 cm)
- Depth: 3.90 in (9.92 cm)
- Operating Temperature: 0C to 40C
- Storage Temperature: -55C to 85C
- Operating Humidity: 10 to 90% Non-Condensing

## Standards/Regulatory

- UDP/TCP/IP Protocol
- IP Multicast
- IGMP: V1.0, V2.0
- ETSI 301.192 DVB
- ISO/IEC 13818-1
- ISO/IEC 13818-6
- IEEE 802.3
- FCC/Industry Canada
- CE
- Emission EN 55022
- Immunity EN 55024
- Safety EN 60950

## Other S75 Models

- S75V: Redistribution of MPEG-2 audio/video
- S75CA: Redistribution of encrypted MPEG-2 audio/video

