Novra A75 ATSC Receiver

Overview

Novra Technologies' latest A75 receiver offering, gives you the flexibility to deliver IP Datagrams and/or ATSC elementary streams from an ATSC terrestrial broadcast to your LAN. This enables you to configure your A75 as:

- A standard ATSC IP data receiver, or
- As an MPEG content aggregation and distibution point, the ATSC elementarty stream PIDs are passed directly onto the host LAN for redistribution or viewing. A special variant of this receiver, the A75-TS, is also available to enable the full transport stream to be passed intact onto the host LAN.

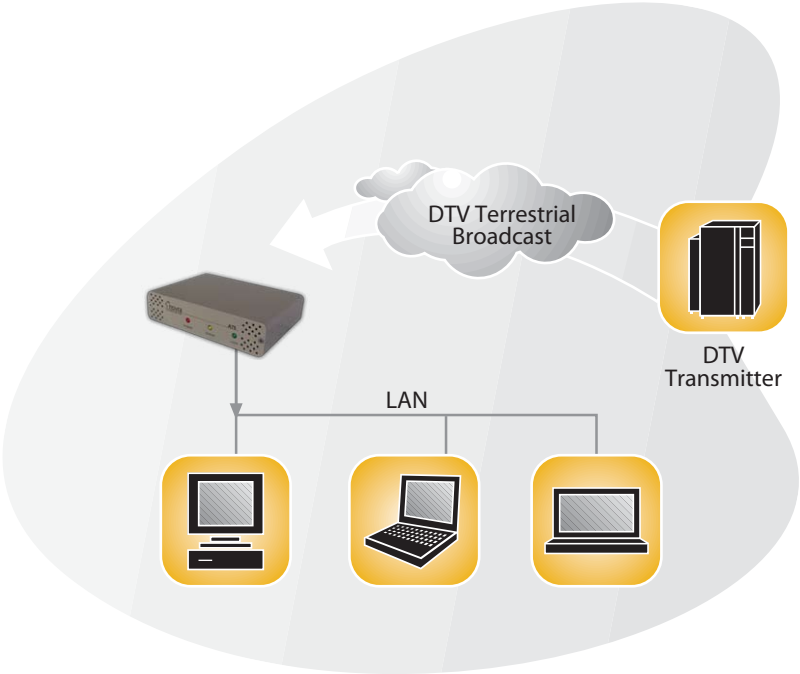
As with previous A75-based receivers, the RJ45 Ethernet connection provides powerful and distinct installation, performance, and maintenance advantages compared to USB or PCI form factors. Installation of the A75 is easy and non-invasive. No drivers are required and no computer needs to be opened. The A75 works with any operating systems and makes the received data available to any device on the LAN.

Applications

The A75 is the ideal ATSC broadband receiver/router. It is designed for datacasting applications over ATSC broadcast signals (ground-based digital TV channels). The A75 well suited to delivery of IP traffic AND the aggregation\distribution of ATSC audio/video signals over your LAN. The A75 supports a variety of applications including: distance learning, weather, file distribution, and ATSC content aggregation and distribution into hotels, single tenant dwellings, multi-tenant dwellings, or cable networks.

Features

- Exceptional Cost / Performance
- Full 6 Mhz channel utilization (19.38 Mbps)
- TCP / UDP / Unicast / Multicast
- ATSC Compliant
- Application Transparent
- Small Footprint
- IGMP Support
- RJ45 10/100BaseT Ethernet Interface
- PID Filtering
- Video Forwarding Features
  - Multi-PID Mapping to a Single MCAST Address
  - Raw Transport Stream Forwarding
  - Optional Multicast of full DVB Multiplex onto LAN (A75-TS)



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Technical Specifications Novra A75 Receiver /Router

Receiver
- Receiving Frequency: 54 to 806 MHz
- ATSC Channels: 2 to 69
- Input Signal Level: -80 dBm to 0 dBm
- Channel Bandwidth: 6 MHz
- Phase Noise: -89 dBc/Hz @ 10kHz
- Demodulation: 8-VSB
- Channel Bit Rate (raw): 19.38 Mbps
- FEC: Reed-Solomon and Viterbi
- Noise Figure: 8 dB
- Image Rejection: > 70dBc

Data
- DSM-CC Multiprotocol Encapsulation per ATSC A/90
- Throughput: 19.38 Mbps
- MAC filtering
- Section packing
- LLC-SNAP

Configuration Points
- IP Address
- PID selection
- RF Channel

Configuration Tools
- MS Windows GUI application and DLL
- Linux library

Status Monitoring
- Signal
- Lock
- Diagnostics

Status Indicators
- Power: Red LED
- Packet Error: Amber LED
- Lock: Green LED
- Ethernet Link and Transmit

Hardware Capabilities
- PID Filters: 16
- Internal Hardware Watchdog
- Non-Volatile Configuration Storage

Operating Systems
- Once Configured, Receiver Supports all Operating Systems

Physical Interfaces
- RF Input Connector: female 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 60C
- Storage Temperature: -40C 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
- ATSC A/90

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