

DTV 720

MULTICASTER



DTV 720 FEATURES

Build up to *16 IP Multicast Transport Streams from ASI and 8VSB Inputs

One (1) Program per IP Multicast Transport Stream

2 ASI Inputs

Options for up to 2 8VSB Tuners

Option for Additional 2 ASI Inputs

10/100/1000 Base T (GigE) Output

Web Browser Configuration and Diagnostics

Field Upgradeable Software

Removes Null Packets to Optimize Bandwidth Efficiency

*16 multicasts not to exceed 110 Mbps

WEGENER's DTV 720 Multicaster gives video head-end operators powerful multicasting options in an affordable package. It allows operators to seamlessly repack local off-air broadcast signals and satellite feeds into IP multicast transport streams.

FLEXIBLE MULTICASTING

The DTV7 20 Multicaster's flexible design supports the following options.

- **Standard Configuration** (2 ASI in / 1 GigE Ethernet out)
- **Option 1** (4 ASI in / 1 GigE out)
- **Option 2** (2 ASI, 1 8VSB in / 1 GigE out)
- **Option 3** (2 ASI, 2 8VSB in / 1 GigE out)

CONTROL AND MONITORING

A web browser provides a user-friendly interface for selecting programs for multicasts, monitoring system parameters and update software applications. Save and recall configurations to your PC using the web browser interface for quick change of operations.

DIAGNOSTICS AND ALARMS

The DTV 720 provides quality monitoring of the streams via a web interface. Warning and alarm conditions are provided by contact closures on a rear panel connector.



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OPTIMIZING MEDIA DISTRIBUTION

DTV 720 MULTICASTER

Standard Configuration (2 ASI in / 1 GigE Ethernet out):

Select programs from 2 ASI input streams to build up to 16 IP multicasts.

Option 1 (4 ASI in / 1 GigE Ethernet out):

Add a dual ASI input card to provide a total of 4 ASI inputs to support multiple satellite receivers.

Option 2 (2 ASI, 1 8VSB in / 1 GigE Ethernet out):

Add one (1) 8VSB demodulator card to build multicasts from local off-air broadcast TV signals.

Option 3 (2 ASI, 2 8VSB in / 1 GigE Ethernet out):

Add two (2) 8VSB demodulator cards to build a multicast from two (2) off-air broadcast TV and satellite signals for additional HD or SD content.

TECHNICAL SPECIFICATIONS

DVB-ASI INPUT

| | |
|---------------------|------------------|
| Effective Data Rate | 100 Mbps maximum |
| Connector | BNC |

RF INPUT (8VSB option)

| | |
|-----------------------|-------------------------|
| Input Frequency Range | 53 to 810 MHz |
| Symbol Rate Range | 10.76 Mbps |
| Input Data Rate | 19.393 Mbps |
| Input Signal Level | -80 to -20 dBm |
| Input Impedance | 75 Ohms, unbalanced |
| Input VSWR | <3.0:1 in 75-Ohm system |
| L.O. Leakage at Input | < -60 dBm max |
| Connector | BNC |

GigE OUTPUT

| | |
|---------------------------------|--|
| Data Rate | 26.97, 38.81 or 2.5 to 70 Mbps in 1 kbps steps |
| Connector | Copper RJ45 jack |
| Physical Layer | 1000BaseT |
| Media Access and Link Layers | Per IEEE 802.3ab (Ethernet) |
| Communications | Multicast/Unicast |
| Transport Protocol | UDP/RTP |
| Packet Size | 1.5K/9K (Jumbo) |

ETHERNET PORT

| | |
|---------------------------------|---------------------------|
| Physical Layer | 10BaseT/100BaseT |
| Connector | RJ45 jack |
| Media Access and Link Layers | Per IEEE 802.3 (Ethernet) |

ALARM & WARNING RELAYS

| | |
|----------|---|
| Function | De-energize on alarm (warning) or power loss |
| Type | Form C (NO, NC and Com contacts available) |
| Rating | 30VDC, 100 mA max |

AC POWER

| | |
|-------------------|-----------------------|
| Voltage | 90-132 or 175-264 VAC |
| Frequency | 50 or 60 Hz +/-2% |
| Power Consumption | < 35 Watts |

AGENCY APPROVALS

| | |
|-----|------------------|
| UL | UL60590 |
| FCC | Part 15B Class A |

ENVIRONMENT

| | |
|-----------------------|----------------|
| Operating Temperature | 0° to +50° C |
| Storage Temperature | -20° to +70° C |

<http://wegener.com/PRODUCTS/index.php>

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