DTV 742

8VSB 4 CHANNEL MULTIPLEXER

DTV 742 FEATURES

Four (4) 8VSB Inputs

Four Programmable ASI Outputs Built-In Multiplexer

PSIP Processing

Program Remapping

Web Browser Configuration and Diagnostics

SNMP Control and Monitoring

Warning and Alarm Relays and LEDs

Field Upgradeable Software

SPACE EFFICIENT HIGH DEFINITION TV PROCESSING

The DTV742 processor from WEGENER allows cable operators to efficiently receive, groom, multiplex, and output four off-air 8VSB television signals in a single 1 RU high chassis. Four separate multiplexers are contained in a single DTV742 to provide four independent ASI outputs

BUILT-IN MULTIPLEXER

The built-in multiplexer allows flexible user-determined combinations of input signals to the four ASI outputs. Each ASI output multiplexer may select, rename, and remap signals from one or more of the inputs. The same programs may be selected for simultaneous delivery to multiple outputs. The ASI outputs may be connected to 64 QAM or 256 QAM modulators for delivery to the digital cable plant.

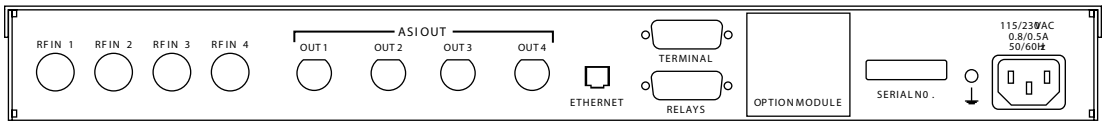
PSIP PROCESSING

PSIP information is extracted and automatically recalculated to ensure that DTV signals are smoothly re-distributed over cable. Operations, such as assigning new program short names, major and minor channel numbers, and MPEG program numbers, can be entered through the web browser. User inputs are monitored by the DTV742 to inhibit entry errors and warn the operator of the errors.

The PSIP tables are automatically converted to cable format with conflicting definitions resolved without user intervention required. For example, two off-air programs with the same MPEG program numbers may be combined into the same ASI output and the numbering duplication will be automatically corrected by the DTV742.

DTV 742 - 8VSB 4 CHANNEL MULTIPLEXER

THE DTV 742 REAR PANEL



TECHNICAL SPECIFICATIONS

RF INPUTS

Input Frequency Range	53 to 810 MHz
Symbol Rate Range	10.76 Mbps
Input Data Rate	2.5 to 80 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

DVB-ASI OUTPUTS

Data Rate	19.39, 26.97, 38.81 and user selectable from 2.5 to 80 Mbps

SERIAL PORTS

Standard	RS232, on Female DB-9
Connector	
Baud Rates	Terminal 115.2 kbps
Formatting	8 data-bits, one start, one stop-bit, half-duplex, parity none

ETHERNET PORT

Physical Layer	10BaseT/100BaseT (twisted pair) on RJ45 jack
Media Access and Link Layers	Per IEEE 802.3 (Ethernet)

ALARM & WARNING RELAYS

Function	De-energize for alarm so that power loss is recognized as an alarm
Type	Form C
Rating	30VDC open circuit, 100 mA max current closed

AC POWER

Voltage	90-132 or 175-264 VAC 0.8 A / 0.5A max auto-detect
Frequency	50 or 60 Hz +/-2%

AGENCY APPROVALS

UL	UL1950 Latest revision
FCC	Part 15B Class A

ENVIRONMENT

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

www.wegener.com/PRODUCTS/index.php

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