



DHDP Series

Easily Deliver Digital & High Definition Programming

FEATURES:

- Brings Digital and HDTV Programming to Existing Systems
- Agile Off-Air Channel Inputs and Outputs are Selected by Simple Switches
- Superior Triple SAW Filtering for Ultra-Clean Adjacent Channel Performance
- Encased in Advanced Die-Cast Housing for Compatibility with Standard Blonder Tongue Micro-Modular Racks & Power Supplies

Blonder Tongue's Digital High Definition Processor (DHDP) Series gives cable television operators the ability to easily deliver digital & high definition programming from 8 VSB off-air sources to customers over existing cable systems.

The DHDP series is a two-part system that receives any high definition or digital signal and processes it to any available 6 MHz channel in the 54-806 MHz frequency range. The unit does not modify any of the data stream information throughout the process guaranteeing compatibility with many consumer decoders. Achieving the highest level of signal purity, the DHDP features triple SAW filtering that results in extremely high adjacent channel rejection. Plus, advanced AGC circuitry ensures consistent output signal fidelity. All modules are housed in Blonder Tongue's advanced die-cast micro housing and compatible with standard micro-modulator racks & power supplies.

With DHDP Series Converters, an operator uses an off-air antenna to receive the digital & high definition programming from local broadcast sources. These signals, currently found in the UHF band, are transmitted in 8 Vestigial Side Band (8 VSB) format. The 8 VSB signal is received by the DHDC-D, converted to IF and then fed to the DHDC-U. The DHDC-U then upconverts the signal to any available channel, including on-channel if desired, for distribution on the existing cable system. The signal can then be viewed at the customers' homes with any HDTV-capable television or a standard television with an external HDTV receiver.

ORDERING INFORMATION:

Stock No.	Model	Description
6261	DHDC-DH	Digital & HDTV Downconverter for Horizontal Housing
6262	DHDC-UH	Digital & HDTV Upconverter for Horizontal Housing
6264	DHDC-DV	Digital & HDTV Downconverter for Vertical Housing
6265	DHDC-UV	Digital & HDTV Upconverter for Vertical Housing
7710	MIRC-4C	4 Module Rack for Horizontal Application (2 Channels, 1RU, Power Supply Included)
7715	MIRC-12V	12 Module Rack for Vertical Application (6 Channels in 3RU)
7722C	MIPS-12C	Power Supply for Vertical Application

DHDP Series Digital High Definition Television Processor Specifications

DOWNCONVERTER

RF		Units
Input Frequency Range: (8VSB)		
VHF 2-13:	54-216	MHz
UHF 14-69:	470-806	MHz
UHF Extended:	806-860	MHz
Operating Input Range:	-10 to +20	dBmV
Input Level Range (AGC controlled):	-20 to +25	dBmV
Adj. Ch. Rejection (Ref. to +30 dBmV IF output)		
Adj. Aural and Below:	>65	dB
Adj. Visual and Above:	>65	dB
Output Frequency:	44.00	MHz IF
Output Level:	+30	dBmV
L.O. Leakage on RF Input Port:	-50	dBmV
Phase Noise @10 KHz Offset:	-85	dBc/Hz

GENERAL	DHDP	Units
Power Requirements:		
+12 VDC:	120	mA
+5 VDC:	160	mA
Operating Temperature Range:	0 to +50	°C

MECHANICAL	DHDP	Units
Dimensions (WxHxD):		
	1.15 x 3.5 x 7.5	in
	29 x 89 x 101	mm
Weight:		
	0.8	lbs
	.36	kgs
Connectors (Rear Panel):		
RF Input:	"F" Type Female	
IF Output:	"F" Type Female	
Power:	3 Pin Polarized Receptacle	
Controls (Front Panel):		
Channel Selection:	2 Digit Push Button	
Channel Enter:	Push Button	
Indicators (Front Panel):		
Power ON/Status OK:	Green	
Status (Error):	Red	

UPCONVERTER

RF		Units
Output Frequency Range:		
	54-860	MHz
Channels:	CATV-STD, IRC, HRC	
Broadcast:	VHF, UHF	
Output Frequency Tolerance:	±5 KHz	
Output Level:		
Analog:	+45 (IF Input +35)	dBmV
Digital:	+40 (IF Input +30)	dBmV
Output Level Adj. Range:	10	dB
Channel Flatness:	1	dB
Spurious Output 50-1000 MHz:	-60	dB
C/N Ratio IN Channel:		
Digital (6 MHz BW +45 dBmV Output):	-60	dB
Analog (4 MHz BW +45 dBmV Output):	-65	dB
Broadband Noise (4 MHz BW +45 dBmV Output):	-76	dBc
Phase Noise:		
@ 10 KHz Offset:	-88	dBc
@ 20 KHz Offset:	-98	dBc
Output Impedance:	75	ohms
Output Return Loss:	12	dB

GENERAL	DHDP	Units
Power Requirements:		
+12 VDC:	140	mA
+5 VDC:	300	mA
Power:	3.2	W
Operating Temperature Range:	0 to +50	°C

MECHANICAL	DHDP	Units
Dimensions (WxHxD):		
	1.15 x 3.5 x 7.5	in
	29 x 89 x 101	mm
Weight:		
	0.8	lbs
	.36	kgs
Connectors (Rear Panel):		
IF Input:	"F" Type Female	
RF Output:	"F" Type Female	
Controls (Front Panel):		
Channel Selection:	2 Digit Push Button	
Channel Enter:	Push Button	
RF Output Level:	Control	
Indicators (Front Panel):		
Power ON/Status OK:	Green	
Status (Error):	Red	

The DHDP Series is a two-unit system consisting of a Downconverter unit which acts as the input section and an Upconverter unit which acts as the output section. Both units are housed in a single MICM style die-cast chassis and are available in both horizontal and vertical versions.

The Downconverter unit is designed to accept any 8VSB signal from 54-860 MHz. Channel entry is made using a 2 digit front panel accessible BCD switch. (I.E. - VHF 2-13, UHF 14-69 & unused spectrum 806-860 MHz.) The Downconverter outputs an IF signal which is fed to the Upconverter unit.

The Upconverter unit is designed to take the IF signal from the down-converter and process it to any channel from 54-860 MHz. Channel entry is made using a 2 digit front panel accessible BCD switch. (I.E. - CATV - STD, IRC & HRC as well as Broadcast VHF & UHF).

Features

- Digital & High Definition Capable
- MICM Form Factor - Vertical & Horizontal Versions
- 54-806 MHz 8 VSB Input
- 54-806 MHz CATV & Broadcast Output
- Excellent Noise Performance - 88 dBc @ 10 kHz & 98 dBc @ 20 kHz
- +40 dBmV Digital Output Level (+45 dBmV Analog Signals)

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Specifications Subject To Change Without Notice.

DHDP Digital High Definition Processor