



**BLONDER
TONGUE**
LABORATORIES, INC.

DHDP SERIES

DIGITAL HIGH-DEFINITION PROCESSOR

1x 8VSB ► 1x IF ► 1x 8VSB

DHDP (Digital High-Definition Processor) is a two-module system consisting of one down-converter module and one up-converter module. The down-converter accepts one 8VSB (digital off-air) input in the 54-864 MHz range and delivers one output in IF (Intermediate Frequency) format. The up-converter accepts one IF input and delivers one output in 8VSB format.

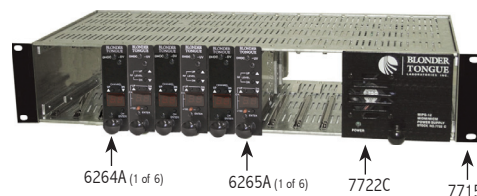


FEATURES

- Agile Broadcast (UHF, VHF) and CATV (Standard, HRC, and IRC) channel assignments in the 54-864 MHz range
- Compatible with Digital TV and High-Definition TV applications
- Compact design allows for deployment of six Combo modules in 2RU rack space

ORDERING INFORMATION

Model	Stock #	Description
DHDC-DV	6264A	Digital TV & High-Definition TV Down-converter module
DHDC-UV	6265A	Digital TV & High-Definition TV Up-converter module
DHDP-V	6266B	Combo modules (6264A + 6265A)
MIRC-12V	7715	Rack Chassis (holds up to 6 combo modules)
MIPS-12C	7722C	110 VAC/60 Hz power supply (one per chassis)



SPECIFICATIONS

DOWN-CONVERTER

Connectors 8VSB Input: IF Output:	"F" Female "F" Female
Input Format: Frequency Range: Operating Level Range: Installation Input Range: Max undesired to desired Ch. ratio: Max adjacent to desired Ch. ratio:	8VSB (ATSC Digital Television A/53E) 54-864 MHz (VHF Ch. 2-13; UHF Ch. 14-69) -20 to +25 dBmV -15 to +20 dBmV (any undesired Ch. < +25 dBmV) < +25 dBc < +15 dBc
Output Format: Frequency: Output Level (AGC): Phase Noise:	IF (Intermediate Frequency) 44 MHz center +30 dBmV (-20 to +25 dBmV input) -90 dBc/Hz (@ 10 kHz offset)

UP-CONVERTER

Connectors IF Input: RF Output:	"F" Female "F" Female
Input Format: Frequency: Input Level:	8VSB 44 MHz center (IF - Intermediate Frequency) +30 dBmV
Output Format: Frequency: Frequency Tolerance: Output Level: Level Adjust Range: Channel Flatness: Spurious Output: C/N Ratio (In Channel-Digital): Broadband Noise: Phase Noise: Impedance: Return Loss:	CATV (Standard, IRC, HRC) and Broadcast (VHF, UHF) 54-864 MHz ±5 kHz +45 dBmV +33 to +47 dBmV 1 dB -60 dB (50 to 1000 MHz) -60 dB (5.5 MHz bandwidth; +45 dBmV Output) -71 dBc (5.5 MHz BW, +45 dBmV Output) -95 dBc (@ 10 kHz offset) 75 Ω 12 dB

GENERAL

Dimensions (W x D x H) Each Module: Power Supply: Rack Chassis:	1.15 x 7.5 x 3.5 inches (29 x 191 x 89 mm) 4.6 x 7.5 x 3.5 inches (106 x 191 x 89 mm) 19.0 x 12.0 x 3.5 inches (483 x 305 x 89 mm)
Power MIPS-12C:	110 VAC/60 Hz
Power Dissipation Down-converter: Up-converter:	3.2 W 5.30 W
Weight Each Module: Fully Loaded Chassis:	0.8 lbs (0.36 kg) 20 lbs (9 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

MONITORING/INDICATORS

Down-converter Ch. Number: Ch. Selection/Activation:	Front-panel; 2-Digit LED Display Front-panel; Up/Down Push Buttons
Up-converter Ch. Number & RF Level: +100 Ch. Indicator: Ch. Selection/Activation: RF Level:	Front-panel; 2-Digit LED Display Front-panel; LED, Red Front-panel; Up/Down Push-Buttons Front-panel; Up/Down Push-Buttons

RELATED PRODUCTS

Model	Description
DHDP-50	Digital TV & High-Definition TV Processor; +50 dBmV Output; 1RU
AQT	QPSK/8PSK-to-QAM Transcoder, 8 modules in 3RU