



**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.

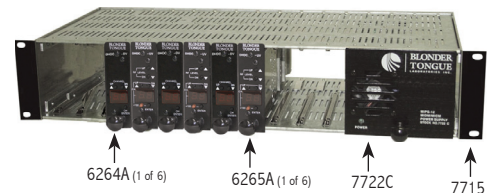


FEATURES

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

UP-CONVERTER

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

GENERAL

Dimensions (W x D x H)	Each Module: 1.15 x 7.5 x 3.5 inches (29 x 191 x 89 mm) Power Supply: 4.6 x 7.5 x 3.5 inches (106 x 191 x 89 mm) Rack Chassis: 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: 3.2 W Up-converter: 5.30 W
Weight	Each Module: 0.8 lbs (0.36 kg) Fully Loaded Chassis: 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: Front-panel; 2-Digit LED Display Ch. Selection/Activation: Front-panel; Up/Down Push Buttons
Up-converter	Ch. Number & RF Level: Front-panel; 2-Digit LED Display +100 Ch. Indicator: Front-panel; LED, Red Ch. Selection/Activation: Front-panel; Up/Down Push-Buttons RF Level: 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