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.
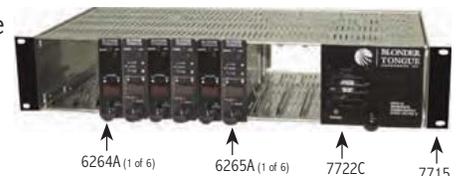
8VSB ► **8VSB**

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)
DHDP-50	6260A	Digital TV & High-Definition Integrated Unit (+50 dBmV Output)

6264A (1 of 6)   6265A (1 of 6)   7722C   7715

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
AQT	QPSK/8PSK-to-QAM Transcoder, 8 modules in 3RU