



Blonder
Tongue



SOLUTIONS FOR ALL YOUR APPLICATIONS

OEM • Encoders • EdgeQAM/IP Solutions • Transcoders • HD Solutions

SDE-4AV-QAM & HDE-HVC-PRO MPEG-2 Professional HD/SD Encoder



Model: SDE-4AV-QAM & HDE-HVC-PRO
Stock#: 6364 & 6364 PRO



V06 07092014 1

Blonder Tongue Encoding



More than 5,000 Encoders shipped since 2008
Premium and basic encoding for Broadcasters,
Content Providers, and Service Providers



10,000 HD/SD MPEG-2 Streams encoded



New
SDE-4AV-QAM - Enhanced SD Encoder
HDE-HVC Pro - Professional HD/SD Encoder

HDE-HVC-PRO

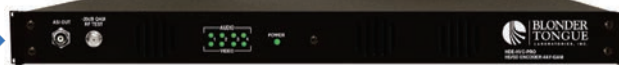
Professional HD/SD Encoder

Encodes high motion content to deliver superior video quality



Composite
Component

HDMI
VGA



QAM RF



Local Distribution

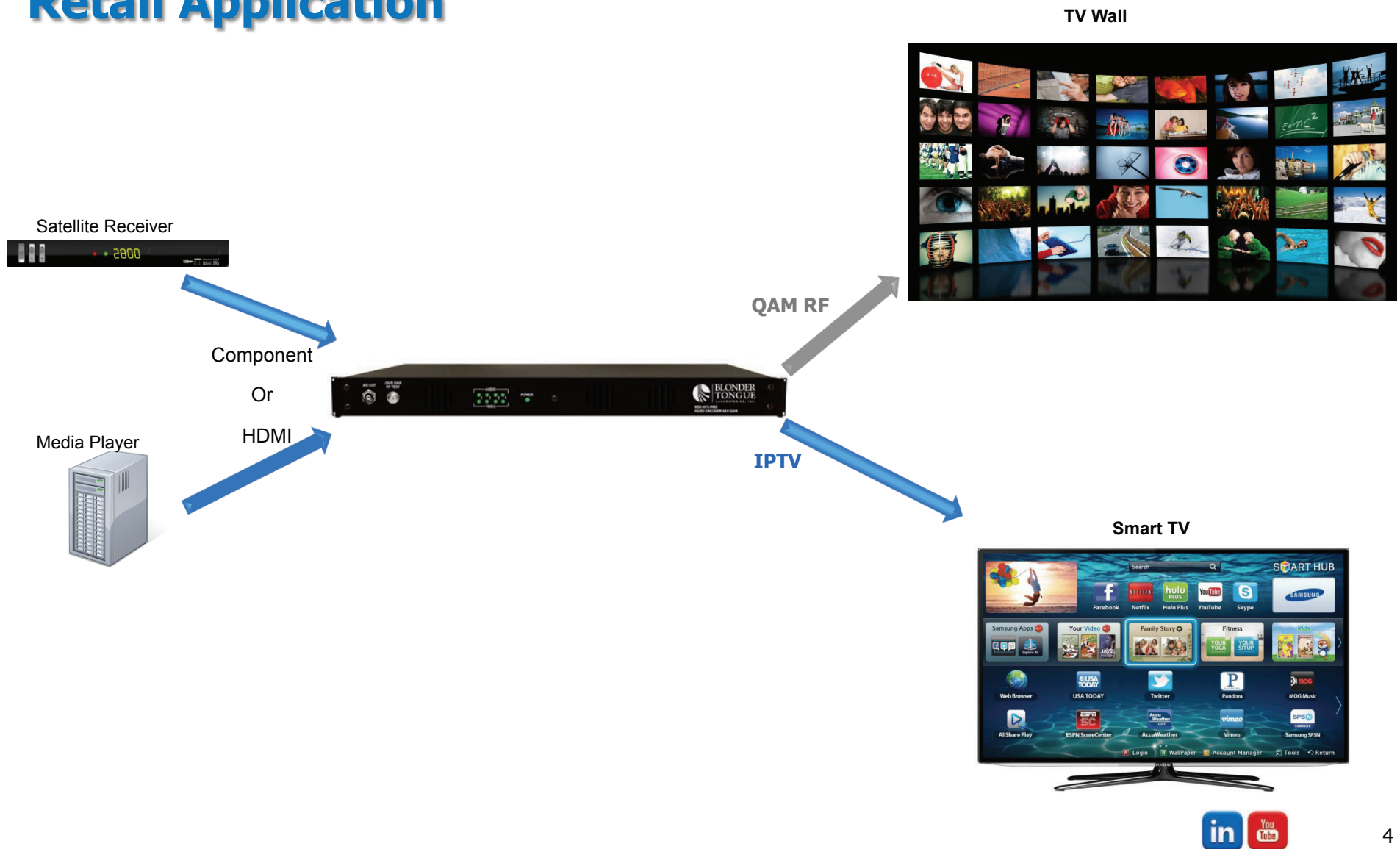
IPTV



HDE-HVC-PRO

Professional HD/SD Encoder

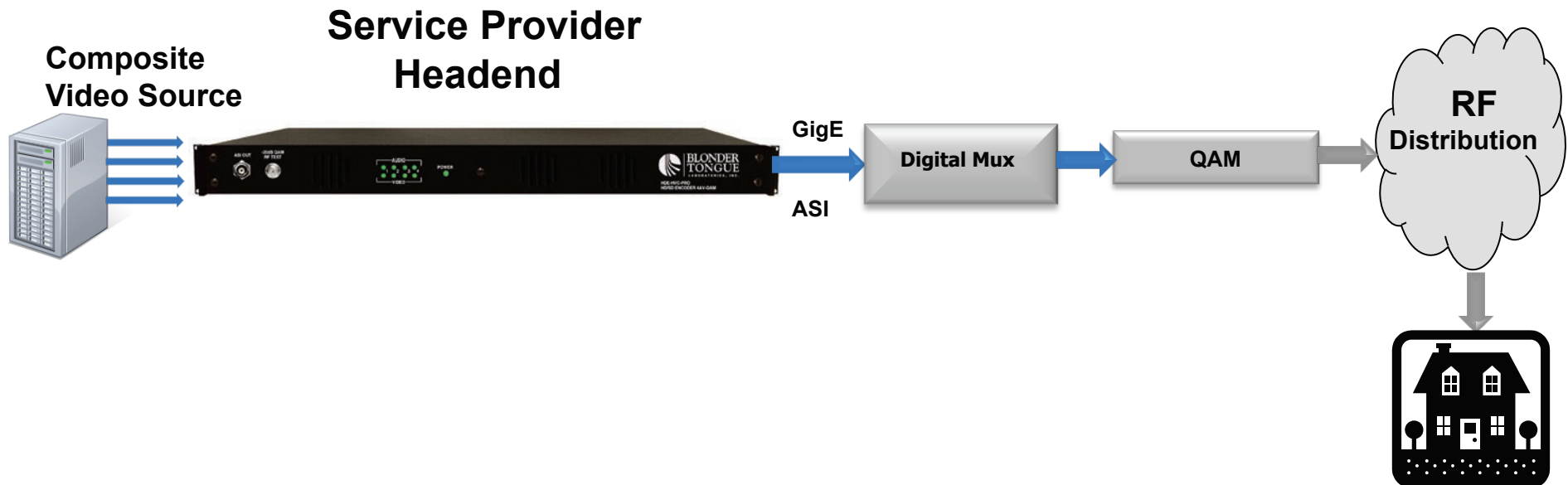
Retail Application



SDE-4AV-QAM

MPEG-2 Enhanced SD Encoder

Encodes SD programs at low video bit rates allowing operators to increase SD channels per QAM while preserving video quality



SDE-4AV-QAM

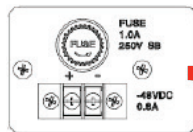
MPEG-2 Enhanced SD Encoder



4xSD NTSC baseband Audio/
Video Format



EAS



-48VDC Power Option
Stock# 6364 48

1xASI

1xQAM

1xIP Stream

*Software upgradable to HDE-2S-IP
with HD and VGA inputs



HDE-HVC-PRO

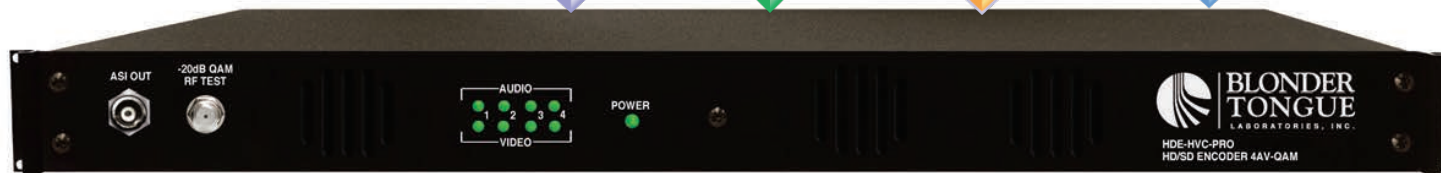
MPEG-2 Professional HD/SD Encoder

1xComponent

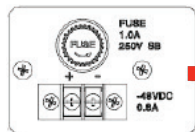
1xHDMI

1xVGA

4xSD NTSC baseband
Audio/Video Format



EAS



-48VDC Power Option
Stock# 6364 Pro 48

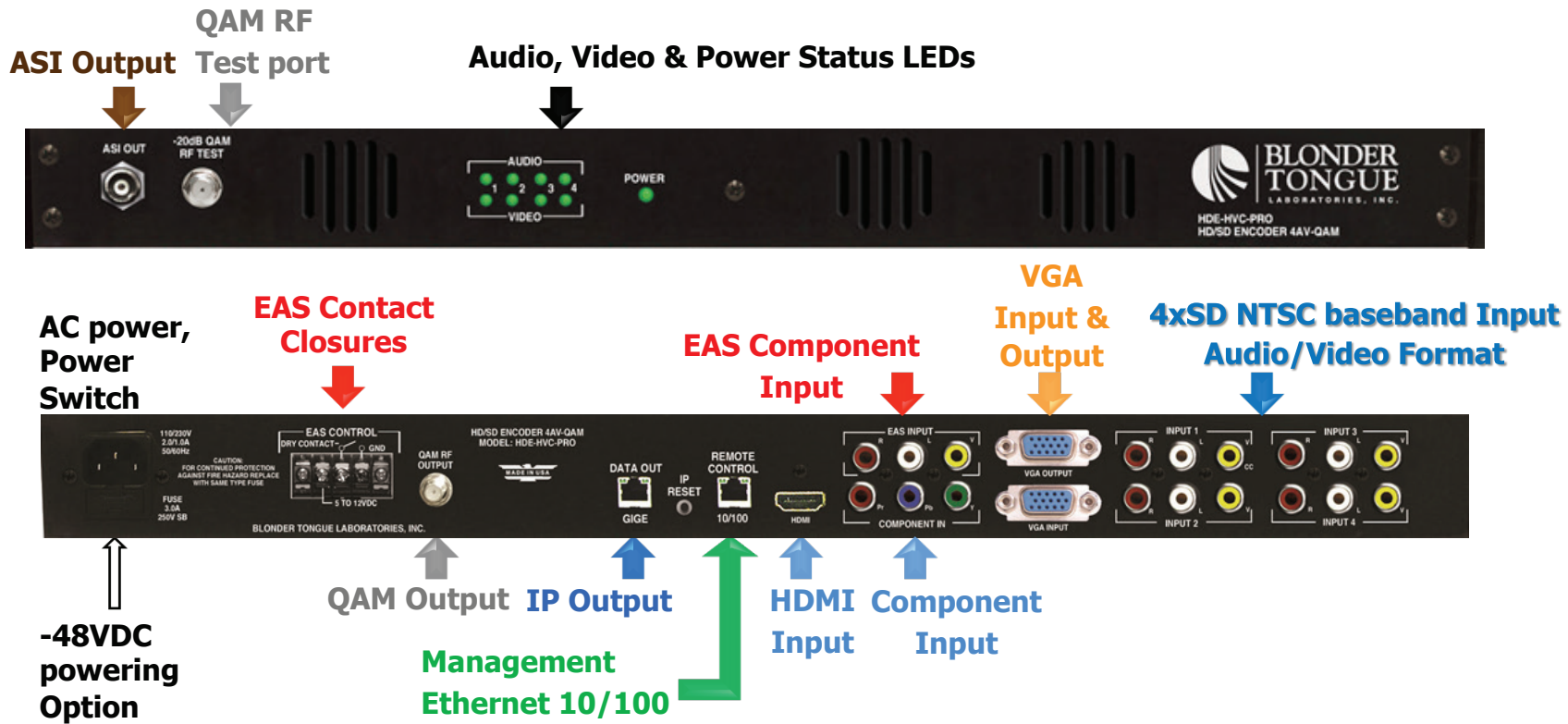


1xASI

1xQAM

1xIP Stream

SDE-4AV-QAM & HDE-HVC-PRO MPEG-2 Professional HD/SD Encoder



SDE-4AV-QAM & HDE-HVC-PRO

MPEG-2 Enhanced SD or Pro HD/SD Encoder



- ❑ In HD mode: accepts 1 program from HDMI (unencrypted), VGA or Component inputs
- ❑ Designed to deliver superior motion optimization for programming such as fast-paced live sporting events in either HD or SD
- ❑ In SD mode: accepts up to 4 standard-definition (SD) input programs in NTSC baseband composite format with Video and Left & Right Audio
- ❑ Provides superior SD encoding allowing the operator to use low video bit rates while preserving video quality
- ❑ In SD mode: each input program is digitized, MPEG-2 encoded, and then multiplexed into one Multi-Program Transport Stream (MPTS)
- ❑ The simultaneously output is available QAM, ASI, and IP
- ❑ Supports user-defined PSIP configuration
- ❑ Supports Dolby® Digital audio encoding, and Closed Captioning (EIA-608)
- ❑ Supports Emergency Alert System (EAS) interface, accepting composite or Contact Closure inputs

SDE-4AV-QAM & HDE-HVC-PRO

MPEG-2 Professional HD/SD Encoder



- Supports user-defined PSIP configuration such as PID, Program Number, Short Name, Major and Minor Channel

Output Mapping					
Input	PID	Program Number	Short Name	Major Channel	Minor Channel
TS1 - QAM / ASI					
P1	100	1		3	1
V: Composite 1	101				
A: Audio In 1	102				
P2	110	2		3	2
V: Composite 2	111				
A: Audio In 2	112				
P3	120	3		3	3
V: Composite 3	121				
A: Audio In 3	122				
P4	130	4		3	4
V: Composite 4	131				
A: Audio In 4	132				

SDE-4AV-QAM & HDE-HVC-PRO MPEG-2 Professional HD/SD Encoder



- ❑ Supports Closed Caption
- ❑ Allows for Adjustable GOP Size

Main	Network	Time	Event Log	Logout					
Status	Program	Video	Audio	TS Map	TS Config	IP	QAM	Output	Refresh
		P1 (Composite 1)		P2 (Composite 2)					
		Bitrate	<input type="text" value="3.75"/> Mbps	Bitrate	<input type="text" value="3.75"/> Mbps				
		Closed Caption	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Closed Caption	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
		Video Filter Level	<input type="text" value="On - Level 1"/> ▾	Video Filter Level	<input type="text" value="On - Level 1"/> ▾				
		Video Coding Mode	<input type="text" value="Frame"/> ▾	Video Coding Mode	<input type="text" value="Frame"/> ▾				
		GOP Size	<input type="text" value="15"/>	GOP Size	<input type="text" value="15"/>				
		Test Pattern	<input type="text" value="Color Bars"/> ▾	Test Pattern	<input type="text" value="Color Bars"/> ▾				
		P3 (Composite 3)		P4 (Composite 4)					
		Bitrate	<input type="text" value="3.75"/> Mbps	Bitrate	<input type="text" value="3.75"/> Mbps				
		Closed Caption	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Closed Caption	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
		Video Filter Level	<input type="text" value="On - Level 1"/> ▾	Video Filter Level	<input type="text" value="On - Level 1"/> ▾				
		Video Coding Mode	<input type="text" value="Frame"/> ▾	Video Coding Mode	<input type="text" value="Frame"/> ▾				
		GOP Size	<input type="text" value="15"/>	GOP Size	<input type="text" value="15"/>				
		Test Pattern	<input type="text" value="Color Bars"/> ▾	Test Pattern	<input type="text" value="Color Bars"/> ▾				

SDE-4AV-QAM: Stock# 6364

MPEG-2 Enhanced SD Encoder



□ SD Mode:

- Accepts up to four (4) programs in NTSC baseband A/V format
- Digitizes, MPEG-2 encodes, & multiplexes up to four programs into one MPTS
- Field upgradeable to support HD migration

HDE-HVC-PRO: Stock#6364 Pro MPEG-2 Professional HD/SD Encoder



□ HD Mode:

- Accepts one (1) program from any of the following inputs: 1xHDMI (unencrypted), 1xVGA, 1xComponent, and 1xComposite