



DVISm - Mini Digital Video Insertion System

QUICK START GUIDE

Although every effort has been taken to ensure the accuracy of this document it may be necessary, without notice, to make amendments or correct omissions. Specifications subject to change without notice.

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SAFETY

1. Safety

WARNING! FAILURE TO FOLLOW THE SAFETY PRECAUTIONS LISTED BELOW MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. PLEASE READ AND COMPLY WITH THE FOLLOWING:

WATER AND MOISTURE: Care should be taken to prevent entry of splashed or dripping water, other liquids, and physical objects through enclosure openings.

DAMAGE: Do not operate the device if damage to any components is suspected.

POWER SOURCES: Only connect the unit to a power supply of the type and capacity specified in the operating instructions or as marked on the device.

GROUNDING OR POLARIZATION: Electrical grounding and polarization means must not be defeated.

POWER CORD PROTECTION: Route power supply cord to prevent damage by external objects. Pay particular attention to the exit point from the device and plug.

FUSING: If your device is equipped with a fused receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

SERVICE: Do not attempt to service the device beyond procedures provided the operating instructions. All other servicing should be referred to qualified service personnel.

MODIFICATIONS: Modifications should not be made to the device or any of its components for applications other than those specified in the operating instructions.

SAFETY CODES AND REGULATIONS: The device should be installed and operated in compliance with all applicable local safety by-laws, codes and regulations.

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START-UP INSTRUCTIONS

2. Start-up Instructions



Figure 1: DVISm Unit

IMPORTANT: Do not connect the DVISm RF output signal to a network before reading these instructions and/or ensuring that the RF level of the output signal is set appropriately (see section 2.4, RF Output).

2.1 Set-up

Set-up of the DVIS unit requires a laptop or desktop PC running Microsoft[®] Windows[®] and with available Ethernet connection (called the "management computer" in the following procedures). Network parameters of the management computer must be set appropriately for access to the DVIS remote management interface. The following procedures assume that the network address for the DVIS/DVISm unit is set to the factory default setting (192.168.0.23). If the unit to be configured has a different network address, adjust the network parameters to suit.

- 1. Set the management computer's Ethernet interface to a static IP address on the 192.168.0.x subnet.
 - a) From the Control Panel, open **Network Connections** and select the connection associated with the Ethernet adapter to be used for connecting to the DVIS/DVISm (e.g., Local Area Connection).
 - b) Right click on the connection and select Properties.
 - c) Select Internet Protocol (TCP/IP) and click Properties.
 - d) Click the selection box beside **Use the following IP address** to enter a check mark in the box.
 - e) In the IP address field, enter 192.168.0.x (where x represents any number from 1-253 except 23).
 - f) In the Subnet mask field enter 255.255.255.0.
 - g) Click ${\bf OK}$ and then ${\bf OK}$ again in the previous window.
- 2. Connect the management computer's Ethernet adapter to the DVIS/DVISm Ethernet port using a CAT5e crossover cable (supplied with the unit).
- 3. Connect the video source and audio source (if required), and turn these external sources on.
- 4. Connect the DVISm to the main power supply and switch the unit on. The green LED labelled POWER lights to indicate that the unit is on.
- 5. Allow the unit to boot for 90 seconds. While the unit is booting, the cooling fans may start to work, stop after few seconds, then start to work again.
- 6. On the management computer, open a web browser and enter http://192.168.0.23/site in the address field.

7. When the login screen appears, enter the **User name** and **Password** for the unit (the factory default for both of these fields is 'atx').

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http://192.168.0.23/site/ Connect to 192.168.0.23 The server 192.168.0.23 at Web Server Authentication requires a username and password. Warning: This server is requesting that your username and password be serven in an insecure manner (basic authentication without a secure connection). User name: Image:	🚖 Favorites 🛛 🝰 🍘 Suggested Sites 🔹 🖉 Free Hotma	ail 🔊 RealPlayer 🖉 Web Slice Gallery 🕶	
Connect to 192.168.0.23 Connect to 192.168.0.23 tweb Server Authentication requires a username and password. Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection). User name: Password: CK Cancel	http://192.168.0.23/site/	🟠 🔻 🔝 🗡 🖃 🖛 🔻 Page 🔹 Safety 🗸 Tools 🗸	? ~ [≫]
Waiting for http://192.168.0.23/site/	Waiting for http://102.168.0.23/site/	Connect to 192.168.0.23	1%, •

8. The DVIS GUI opens and displays the Encoder Settings screen, allowing further configuration.

2.2 Encoder Settings

The Encoder Settings screen allows setting video and audio parameters for MPEG encoding of applied baseband signals.

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CATX DVIS	Settings	RF Output	Maintenance Demod & Mux	Settings D	/IS Update	rofiles: North-Ame	Ver. 6.0.1.
Encoder Setting				Ports View		ones.	
Encoder (port) Number:	1 🗸			Port 1	Port 2	Port 3	Port 4
Encoder Type:	Detect Encoder			NXP	NXP	VWEB_NA	VWEB_NA
Encoder Active:				Active	InActive	InActive	InActive
Input Parameters							
Input Video Standard:	NTSC 🗸			NTSC	NTSC	NTSC	NTSC
Audio Sampling Rate:	48 🗸	(Khz)		48	48	48	48
Output Parameters							
MPEG2 Video Rate: [1000-8000]	3000	(kbps)		3000	3000	3000	3000
Video Resolution:	720x480 🗸			720x480	720x480	720x480	720x480
Brightness: [0-255]	138			138	138	138	138
Contrast: [0-127]	63			63	63	63	63
Saturation: [0-127]	66		Move To Table	66	66	66	66
Enable Audio:	Enable 🗸		>>	Enable	Enable	Enable	Enable
Audio Codec:	AC-3 🗸			AC-3	AC-3	AC-3	AC-3
Audio Rate:	256 🗸	(kbps)		256	256	256	256
Audio Volume: [0 - 255]	80			80	80	80	80
VBI Value:	none 🗸			none	none	none	none
Program Identification							
Program Number: [1-65535]	1175			1175	222	333	444
Program Name: [Max.12 Chars]	VIDE00			VIDE00	VIDE01	VIDE02	VIDE03
Video PID: [21-8190]	1281	(dec.)		1281	200	300	400
Audio PID: [21-8190]	1282	(dec.)		1282	201	301	401
PCR PID: [21-8190]	1281	(dec.)		1281	200	300	400
PMT PID: [21-8190]	1280	(dec.)		1280	222	333	444
					_		

Ports 1, 2, 3, and 4 in this GUI correspond to slots 1 and 2 on the main unit front panel as follows:

Port 1: Slot 1 - Input A

Port 2: Slot 1 - Input B

Port 3: Slot 2 - Input A

Port 4: Slot 2 - Input B

To change the settings for any port:

- 1. Type or select the appropriate port number in the Encoder (port) Number box.
- Ensure that the Encoder Active checkbox is checked (required in order for the port to perform any encoding action) and change other settings as required (settings are self-explanatory). Where only certain values are allowed, the values are listed in a drop-down box. Settings that can not be changed from this screen are greyed out.
- 3. When all settings have been entered in the Encoder Setting section of this screen, click **Move to Table** to copy all parameters to the corresponding port in the Ports View section.
- 4. Enter settings for other ports in the same manner and copy to the Ports View section.
- 5. When all settings for all A/V ports are entered and transferred, click Submit All Ports to activate the new settings. If the settings are not activated and you open another GUI screen, the new settings will not be applied and will be lost. Each settings screen has to be executed on its own.

The video resolution options and Audio Codec available depend on the encoding card used and are displayed in the drop-down boxes for the particular card. NXP type cards encode 720x480, 480x480 and 352x480 video and both AC-3 and MPEG-1 audio. Vweb encoding cards can encode 720x480, 704x480, 544x480, 480x480, and 352x480 video but only AC-3 audio.

2.3 Mux Screen

In the Mux screen the Add/Drop multiplexing feature for incoming QAM streams can be enabled/disabled.

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Favorites 🖉 ATX DVIS Settings					6	• 🔊 • 🖻	🛛 🖶 🔻 Page 🕶	Safety 🕶 T	rools 🔹 🔞 🗸	»
DVIS Setting	1gs s Mux RF Outpu	ıt Maintenar	nce Demod	& Mux Setting	DVIS U	odate Pro	files: North-Ame	Ve rica 🗸	er. 6.0.1.2 Log	~
MUX Settings										
Transport Stream ID:[1-65535]	1									
Service Provider Name:[Max.12 Chars]	ATX									
Add & Drop Mode:										
Dynamic PSI Monitoring:										
Legacy SET TOP BOX Support Settings										
Lock to V-Sync:	V									
QBA & AF Enable:										
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When Add/Drop is enabled, certain parameters in the DVISm GUI screens are not accessible; these fields are greyed out and inaccessible (Section 1.7, Demod & Mux Settings, shows which parameters are settable and which are locked).

QBA/AF processing of transport streams and lock to V-synch can also be enabled and disabled. QBA/AF processing and lock to V-synch are only required when DVISm signals are sent to certain legacy STBs.

When all settings have been completed, click **Submit** to activate the changes. If the settings are not activated and you open another GUI screen, the new settings will not be applied and will be lost. Each settings screen has to be executed on its own.

Settings that can not be changed from this screen are greyed out.

2.4 RF Output

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🔶 Favorites 🏾 🏀 ATX DVIS Settings			🟠 🕶 🗟 🕤 🖃	🖶 🔻 Page 🕶 Safety 🖛 Tools 👻 🔞 👻
CATX DVIS Set	t tings ings Mux RFOuty	put Maintenance Demod & Mu	x Settings DVIS Update Profile	Ver. 6.0.12 s: North-America V Log
RF Seturigs RF Frequency: [15000-975000] QAM Mode: QAM Modulation Type: Signal Bandwidth / Symbol Rate: RF Attenuation(1db): [0-26] Interleaving:	455000 (Kh 256 v QAM-B v 6Mhz/5360Ksp v 20 IJJ 128/1 v	z)		
	Refresh Su	ıbmit		
			😜 Internet	: 🖓 + 🔍 100% +

The RF frequency output range is 15 to 975 MHz, entered in kHz without decimal points or commas. In the example above, a setting of 455 MHz is entered as 455000.

The QAM Mode drop-down box allows selection of 64QAM or 256QAM mode when QAM Modulation Type is set to QAM-B.

Signal Bandwidth & Symbol Rate are fixed to selected QAM-B settings as per the SCTE standard.

RF Attenuation range is 0-26 dB, entered as a whole number. For example, to attenuate the signal by 15 dB enter 15.

Interleaving should be left in its default mode, which is I/J 128/1.

When all settings have been completed, click **Submit** to activate the changes. If the settings are not activated and you open another GUI screen, the new settings will not be applied and will be lost. Each settings screen has to be executed on its own.

2.5 Maintenance

ATX DVIS Settings - Windows	Internet Explorer		
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Favorites ATX DVIS Settings		🚹 🔻 🗟 🗉 🖶 🛪 Page 🗸 Safety 🕇 Tools	- 🔞 -
ATX DVIS S	ettings	Ver. 6.	0.1.2
Encoder Se Maintenance	ettings Mux RF O	utput Maintenance Demod & Mux Settings DVIS Update Profiles: North-America 🗸 Lo	9
DVIS Information			
Product ID:	DVIS-00000548		
Version:	1.9-5.5-5.8-7.35		
DVIS Hardware Status	10	N 0	
Start Fans Above: [0 to 75]	10 (C	·)	
Alarm Temperature: [0 to 75]	50 (C	(¹⁰)	
Fan A Status:	on		
Fan B Status:	on		
Temperature:	26 (C	^w)	
SNMP Settings			
SNMP Server:	192.168.0.65		
SNMP Port:	161		
Remote Update Server			
Remote Update Server:	192.168.0.55		
Remote Server Port:	80		
Schedule Remote Update:			
Schedule Day:	Every day 🗸 🗸		
Schedule Hour:	12:00 (HH:MM 00:00-2	23:59)	
Force Update Go to Sleep Boa	rd Time Export Settings	Refresh Submit	
· · · · · ·			
Network Settings			
Any change to the network paran	neters triggers a system r	eboot.	
Static IP Address:	192.168.0.23		
Subnet Mask:	255.255.255.0		
Default Gateway:	192.168.0.1		
DNS IP Address:	192.168.0.1		
MAC Address:	00-50-C2-87-42-28		
Notify Server URL:	http://www.atxnetworks.	.com	
DHCP Client Mode Enabled:			
Change User&Password Net	work Info. Set Network	1	

The Maintenance screen provides some status information, temperature threshold settings for fan start and alarm temperature, IP address setting, and DHCP Client control (check **DHCP Client Mode Enabled** to turn on).

When all settings have been completed, click **Submit** to activate the changes. If the settings are not activated and you open another GUI screen, the new settings will not be applied and will be lost.

2.6 Demod & Mux Settings/Start-up

In order to access the Demod & Mux Settings screen, the **Add & Drop Mode** checkbox on the Mux screen must be enabled. To enable Add & Drop Mode, select the **Add & Drop Mode** check box then click **Submit**. To enable Dynamic PSI Monitoring, first enable Add & Drop Mode, then select the **Dynamic PSI Monitoring** checkbox and click **Submit**

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DVIS Setting	ings Ver.6.0.1.2 js Mux RF Output Maintenance <u>Demod & Mux Settings</u> DVIS Update Profiles: North-America V Log
Transport Stream ID:[1-65535] Service Provider Name:[Max.12 Chars] Add & Drop Mode: Dynamic PSI Monitoring: Legacy SET TOP BOX Support Settings Lock to V-Sync: QBA & AF Enable:	1 ATX V V Refresh Submit

Click the Demod & Mux Settings tab to access the menu.

ATX DVIS Settings - Windows Internet Explorer	
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📌 Favorites 🏾 🌈 ATX DVIS Settings	🐴 🔹 🔂 🔹 🖶 🔹 Page + Safety + Tools + 🔞 + 🎽
DVIS Settings Encoder Settings Mux RF Output Demodulator Settings	Ver. 6.0.1.2 Maintenance Demod & Mux Settings DVIS Update Profiles: North-America V Log PID Display Tree
QAM Modulation Type: QAM-B	□ → Magg2 Transport Stream
QAM Mode: 256	- TS Version=15
Channel Frequency: [54000 - 651000 (Khz)	-] TS ID=52149
Symbol Rate: [2608 - 6956] 5360 (Ksps)	⊕- P Program=1089 ⊕- P↓ Program=1175 (Dropped)
	P Program=1205
Demodulator Settings An	natyze Bit P Program=62351 Bit Rate Margin=500Kbps
Add & Drop Softings	··· D Null Packets BitRate=5500Kbps
Av Video Bit Audio Bit AV Channel Bit	Transport Stream Total BitRate=38811Kbps
Channel Rate Rate Rate	
1175 AV1 Y 3000 256 Y 3256	
s	Set Bit Rates
	Configure
	Stream ID : 52149
	Start Total Bit Rate : 38811 (Kbps)
Clear Add&Drop Add	Total Available Bit Rate: 7551 (Kbps)
Total AV Bit Rate (Kbos): 3256	
Done	😜 Internet 🦓 👻 🔍 100% 🔻 🔬

To analyze incoming QAM and perform Add/Drop Multiplexing:

1. Click Demodulator Settings to open the Tuner Diagnostic window.

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DVIS Settings	x RF Output Maintenance Den	nod & Mux Settings DVIS Up	date Profiles:	Ver. 6.0.1.2 Log
Demodulator Settings	Tupor Disgrantia		7	
QAM Modulation Type:	OAM Modulation Type:			
QAM Mode: Channel Frequency: (54000 -	OAM Mode:	QAM-B		
866000] Symbol Pate: (2608, 6056) [5360	Channel Frequency: [54000 - 866000]	651000 (Khz)		
Symbol Rate. [2006 - 0550]	Symbol Rate:[2608 - 6956]	5360 (Ksps)		
Demodulator Settings				
Add & Drop Settings	Carier Lock Frame Sync	Front End Lock	11Khne	
Program AV Video Bit Audio Bit A		•	(http://	
1175 3000 32	6			
	Estimate Power Level:	(DBmv)		
	BER:			
	Apply & Close Tune	Cancel		
			(Kbps)	
Clear Add&Drop Add	Total Av	vailable Bit Rate : 7551	(Kbps)	
Total AV Bit Rate (Kbps):	3256			
<				>
Jone			😝 Internet	🖓 🔹 🔍 100% 👻 💡

- 2. Select the QAM Modulation type and QAM mode. Enter the Center Frequency of the desired QAM channel (kHz).
- 3. For QAM-A/C mode enter the symbol rate. For QAM-B the rates are preset.
- 4. Click **Tune**. When the signal is tuned and locked, the Carrier Lock, Frame Sync, and Front End Lock indicators turn green and the Estimated Power Level and BER are indicated.
- When properly tuned (all three indicators are green), click Apply & Close to apply the settings and return to the Demod & Mux Settings screen.
- 6. Click **Analyze** to analyze the selected QAM signal. A progress indicator displays the analysis time. Analysis can take more than a minute, depending on type of incoming QAM and the processing required. When the analysis is finished, the PID tree of the QAM channel appears in the PID Display Tree box.

MPEG Program Numbers are indicated by "Program=" entries in the PID Display Tree. To expand the display of program parameters to show Program Bit Rate, Video PID, Audio PID, PMT PID and other parameters, click + in front of the tree entry.

D Display Tree	
□ 15 ID=52149	
E- P Program=1089	
ES Type=ATSC_AC_3_audio	
Program BitRate=14922Kbps	
R Program=1175	
🐃 🗄 PMT Table	
ES Type=Digicypher-2_Video	
ES Type=ATSC_AC_3_audio	
Program BitRate=2996Kbps	
P Program=1205	
P Program=62351	
Bit Rate Margin=500Kbps	
Null Packets BitRate=5500Kbps	
Transport Stream Total BitRate=38811Kbps	

7. To drop a program, right-click the program in the PID Display Tree and select **Drop** from the drop-down list. The program is dropped from the processed stream and placed in the Add & Drop Settings box.



To reactivate a dropped program, right-click the program in the PID Display Tree and select **Active** from the dropdown list. The program is returned to the processed stream and removed from the Add & Drop Settings box.



 To insert a locally generated encoded program in the output QAM in place of the dropped program, select an encoder port to be assigned to the dropped program from the AV Channel drop-down list in the Add & Drop Settings dialog box.

Add & Drop	Settings				
Program	AV Channel	Video Bit Rate	Audio Bit Rate	AV Channel Bit Rate	
1175	None V None AV1 AV2 AV3 AV4	0	0 🗸		Set Bit Rates Configure Start
Clear Adda	Drop	d Total AV Bit	Poto (Khoo)	0	

- 9. To calculate the available bit rate for program insertion, click Set Bit Rates (Note: there must be at least one AV channel assigned to a dropped program). The application analyzes the incoming stream to determine the available bps that can be allocated to the reinserted programs. This process may take a minute or more, depending on the type of incoming signals. A progress indicator displays the analysis time.
- 10. When the analysis is finished, the available bit rate for each inserted program is displayed in the Video Bit Rate column of the Add & Drop Settings box. If a different video bit rate is required for the inserted program, enter the new value in the Video Bit Rate column.

CAUTION: The total Transport Stream bit rate cannot be higher than the total bit stream available for the selected QAM Mode.

11. Select the desired Audio Bit Rate. The complete program bit rate (the sum of the Video Bit Rate and Audio Bit Rate) is displayed as AV Channel Bit Rate.

Add & Drop	Settings			
Program	AV Channel	Video Bit Rate	Audio Bi Rate	t AV Channel Bit Rate
1175	AV1 🗸	1901	256 🗸	2157
1205	None 🗸	0	0 🗸	

12. Click Configure.

13. When the configuration process is finished, click Start. The modified QAM stream is available at the RF Out port.

When the unit is operating in Add & Drop Mode, the Encoder Settings menu changes to show active ports as selected on the Demod & Mux Settings page. A number of the options are greyed out as they are set on the Demod & Mux Settings page.

ATX DVIS Settings - Window	vs Internet Explorer						
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Favorites ATX DVIS Settin	as					📑 🚔 🔻 Page 🕶	Safety - Tools - 🌘
	30						
AIX DVIS	Settings						
Franker	Cottings	DE Outeut	Maintenance Demad 8 News	Cattingen	AC Undete	n bladh Amer	Ver. 6.0.1.2
Elicoder	setungs mux	RF Output	Maintenance Demod & Mux	setungs D	vis update p	rofiles: North-Arrier	ica 🔽 Log
Encoder Setting				Ports View			
Encoder (port) Number:	1 🗸			Port 1	Port 2	Port 3	Port 4
Encoder Type:	Detect Encoder			NXP	NXP	VWEB_NA	VWEB_NA
Encoder Active:	\checkmark			Active	InActive	InActive	INACtive
input Parameters							
Input Video Standard:	NTSC 🗸			NTSC	NTSC	NTSC	NTSC
Audio Sampling Rate:	48 🗸	(Khz)		48	48	48	48
Output Parameters							
MPEG2 Video Rate: [1000-8000]	3000	(kbps)		3000	3000	3000	3000
Video Resolution:	720x480 🗸			720x480	720x480	720x480	720x480
Brightness: [0-255]	138			138	138	138	138
Contrast: [0-127]	63			63	63	63	63
Saturation: [0-127]	66		Move To Table	66	66	66	66
Enable Audio:	Enable 🗸		>>	Enable	Enable	Enable	Enable
Audio Codec:	AC-3 🗸			AC-3	AC-3	AC-3	AC-3
Audio Rate:	256 🗸	(kbps)		256	256	256	256
Audio Volume: [0 - 255]	80			80	80	80	80
VBI Value:	none 🗸			none	none	none	none
Program Identification							
Program Number: [1-65535]	1175			1175	222	333	444
Program Name: [Max.12 Chars]	VIDE00			VIDE00	VIDE01	VIDE02	VIDE03
Video PID: [21-8190]	1281	(dec.)		1281	200	300	400
Audio PID: [21-8190]	1282	(dec.)		1282	201	301	401
PCR PID: [21-8190]	1281	(dec.)		1281	200	300	400
PMT PID: [21-8190]	1280	(dec.)		1280	222	333	444
	Refresh Port				F	Refresh All Ports	Submit All Ports

Similarly, the Mux menu shows the status of Add & Drop Mode, Dynamic PSI monitoring, etc.; the RF Output menu shows output frequency, QAM Mode, etc.; and the Maintenance menu shows the status of the DVIS unit. Parameters that can not be changed are greyed out.

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DVIS Settin	n gs 6 Mux RF Output	Maintenance	Demod & Mux Set	ings DVIS Upda	te Profiles: North-Ameri	Ver. 6.0.1.2 ca 🗸 Log	
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2.7 RF Output Connections

The encoded signal is supplied in QAM RF format at two RF outputs. MODULATOR OUTPUT provides a high level output directly from the QAM modulator. The signal from the QAM modulator also passes through a directional coupler and is combined with the incoming channel line-up to produce lower level output at RF OUT (approximately 20 dB level difference) By default, the signal from RF OUT is used, which requires a jumper cable between the MODULATOR OUTPUT and

TO COMBINING ports. If RF Attenuation is set to 0 dB in the RF Output screen, RF power levels are as follows:

MODULATOR OUTPUT: 58.5 ±1.5 dBmV RF OUT: 36.5 +/- 1.5 dBmV

NOTE: It is strongly recommended that all unused RF ports on the DVISm front panel be terminated with 75 Ohm terminators when deploying the unit in the field.



Figure 2: RF Outputs



Figure 3: Functional Schematic

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SERVICE & SUPPORT

3. Service & Support

3.1 Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX to obtain a valid RMA number for any ATX products that require service and are in or out-of-warranty before returning a failed module to ATX.

TECHNICAL SUPPORT

 Tel:
 289.204.7800 – press 1

 Toll-Free:
 866.YOUR.ATX (866.968.7289) USA & Canada only

 Email:
 support@atx.com

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3.2 Warranty Information

All of ATX Networks' products have a 1-year warranty that covers manufacturer's defects or failures.



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