

Thank you for your purchase of the Adtec RD-60 Receiver/Decoder. This product is sold with optional demodulator hardware packages. Configurations and indicators relevant to those add-on package are noted here. If you purchased this product without a demodulator, please disregard settings noted with an asterisks.

Quick View Status

For information on the core systems of the IRD, use the down arrow on the front panel to scroll through these quick view menus.

Decoder Activity TMR Encryption
DECODING ASI TMR:20.000M CAS:Free to Air
SVC: 00001 "Service Name" Service Provider

Service ID Service Name Service Provider

Video PID PCR PID CODEC

VID: 481 PCR:481 COD: H.264
VRT: 18.012M RES:1920X1080 FR:59i CHR: 422

Video Rate Resolution Frame Rate Chroma

Audio 1-8 Type Bitrate

1:MU 384k 2:MU 384k 3:MU 384k 4:MU 384k
5:MU 384k 6:MU 384k 7:MU 384k 8:MU 384k

Audio PIDS 1-8

Audio 1:11300 2:11400 3:11500 4:11600
PIDS 5:11300 6:11400 7:11500 8:11600

Input Mode/FEC Rcv Level Link Margin

RF1 32APSK9/10 Lvl: -52.0dB LMar:20.5dB
Locked DVB-S2 Sym:29.970Ms Eb/No:29.8dB

Lock Status Type Symbol Rate Eb(s)/No

RTP Detected RTP Error Count Buffer

RTP: Y RTP-Err: 1234567 Buffer:1234ms
FEC: Y FecLoss: 1234567 FecCorr: 1234567

FEC Detected FEC Packet Loss FEC Corrections

Reset:

Should you need to reset your device, you can do so via the front panel by pressing the MODE, ESCAPE and RIGHT ARROW keys simultaneously.

LED Status

Decode

- Off - Decoder is idle
- On - Decoder is active

ASI/IP/RF

- Off - No services detected
- On - Services detected

Lock 1 / Lock 2

- Off - Tuner is not locked
- On - Tuner is locked

IP Out

- Off - IP Egress is idle
- On - IP Egress is active

Bars

- Off - B/T/ID options are disabled
- On - B/T/ID are enabled

A1 - A8

- Off - No Audio Decoding
- On - Audio Decoding
- Blinking - Fail to decode or pass audio

Alarm

- Off - No system alarms
- On - System alarm (Typically NTP alarm)

BISS

- Off - Not Decrypting
- On - Decrypting

Busy

- Off - No network activity
- On - Network traffic present

Link

- Off - No network detected
- On - Connection active

Services	RF Rx * PRM	RF Rx * STD	IP Rx	Video	Audio	VBI	CAS	System
ASI RF1 RF2 IP	Select Tuner	<< RF1 - RF2 >>	Rx IP	Output	<< AUDIO 1-8 >>	TimeCode	Mode	Login
List of Services	<< RF1 - RF2 >>	Input Active	Rx Port	Fault Mode	OFFSET	Source	Clear SW	Duration
Decode First Found	Local Oscillator	Local Oscillator	Connector	Fault Resolution	ANALOG VOL. (Audio 1-2 only)	SDI Output	Encrypt. SW	Backlight
	Manual LO	Manual LO	Latency	Down Scaling	SDI Matrix	SDI Alt Output	User ID 1	Network
	Downlink	Downlink	Time Out	Genlock		AFD	User ID 2	Time
	L-Band	L-Band		Mode		SDI Line No.		NTP
	Mod. Type	Mod. Type		Hor. Adj.		SDI Alt Line		Alarm
	CCM Mode	Mod. Mode		Vert. Adj.		Closed Captions		SNMP
	Mod. Mode	Symbol Rate		Pixel Ph.		Active		COM2
	Symbol Rate	Aquisition Range		Status		CVBS Line No.		Name
	Acquisition Range	Roll Off		CVBS		SDI Line No.		Firmware
	Roll Off	Pilot		Reset		SDI Alt Line		
	Pilot	LNB State				Teletext		
	Fec Frame Type	LNB Polarity				CVBS Line No.		
	LNB State	LNB Tone				VTC		
	LNB Polarity					SDI Line No.		
	LNB Tone					SDI Alt Line		

Units ship with the front panel logged in by default. If you become logged out and are prompted for a password, use the following key sequence for access.

Press <Select> when panel displays 'User Login - logged out'
 Press <Up arrow>
 Press <Select>
 Press <Enter>
 Press <Right arrow>
 Press <Enter>

Front Panel Menus:

- Use Mode Button to move through top layer menus.
- Use select to enter into edit mode and enter to save selection.
- Use arrows for navigation in submenus.

Special Keys:

- Use the F2 button as a decimal.

Model Indicators:

- Premium demodulator
- Standard demodulator
- No demodulator



Getting Connected

To begin, you will need to connect to your RD-60 via ethernet directly, or by adding the RD-60 to your local area network. The default address for all Adtec devices is 192.168.10.48.

To connect directly to the device, make sure that your computer and the device have IP addresses within the same IP class range (ex. 192.168.10.48 for the device and 192.168.10.49 for your computer). If you need to change the IP address of the device, this can be done via the front panel, System > Network menu. Using a CAT 5 crossover cable, connect one end to your computer and the other to the Ethernet port found on the processor section of the back panel. (Some computers can auto negotiate the connection and a crossover may not be necessary.)

To add the device to a LAN, connect a standard CAT 5 Ethernet cable to your network router and then to the Ethernet port on the back of the device. If your network is DHCP enabled and you prefer that over a static IP, you can turn on DHCP for the device via the front panel, System > Network menu.

Web-Based Control Application



Adtec Digital has adopted zero-configuration networking technology, streamlining the setup and configuration processes for our products. The use of this technology enables automatic discovery of Adtec devices and services on an IP network. Used in tandem with the web-based control and configuration applications we can now provide 1-click access to any device.

By using the built-in Bonjour® locator in Apple's® Safari® browser or the plug-ins readily available for IE® or Firefox® browsers, users can locate all of the Adtec devices on a network by referencing the serial number on the back of the device. Clicking on the unit in the Bonjour® list will re-route you to a login page. If you do not wish to use Bonjour, you can reach the device's web application by pointing your browser to the IP Address of the device. Ex. http://192.168.10.48/. You will be prompted for a username and password. The default username is 'adtec'. The default password is 'none'.

The left-hand panel of the application will report current status in real-time while the right panel tabs will allow you to configure your device.



Have questions? Each field or group of fields in our web-based application has a hint button associate with it. It contains information on use of the field or acceptable ranges.

Getting Started

Once your receiver is powered up, configured on your network and you have inputs applied with active services, you can select which services you want to decode via the web-based control application. The below image shows the Input > RD Services tab. From this tab, you can view all services available on your device, select one of the services for decode or view more details about the service. There is a 'Select First Found' option for each input. When selected, this configuration will detect the first service detected in the PAT table of the input and decode it.



Note: IP service selection is treated differently than ASI or RF inputs. To populate the IP services section, you need to first visit the IP Params tab and set the correct Multicast RX, port and handling parameters. Return to the RD Services tab. Click the 'Select First Found' radio button for IP. This will populate the RD Services tab with services found on the IP input.

The most recent firmware releases are available on our support website, www.adtecdigital.com. Advanced users can find direct API command help as part of the on-board web application, Help Tab.

Power

Power: 1 & 2 Redundant AC Power, Standard 3 pin computer power plug (Auto range 70-240 VAC Input)

Processor

GigE: MPEG2 or RTP multicast transport ingress port Current Constraints: 10 - 30 Mbps
 COM2: API Serial Communication Interface
 COM1: Serial Port Used for Troubleshooting (Terminal)
 Ethernet: 10/100 base T ethernet interface (Monitoring/Management)
 RS422: Not Currently Supported
 Parport: 9-pin parallel I/O interface for control systems
 GPIO: Tally and Control Port

Decoder

Analog Audio Out: Balanced analog audio out. Stereo pairs 1 & 2
 AES Audio Out 1-4: 75 Ohm AES-3 BNC
 ASI In: 75 Ohm BNC
 DVB-ASI x3 Out: 75 Ohm BNC
 SDI/DVB In: 75 Ohm terminated Input, Video & Audio SDI Supports SMPTE 425M (Level A and Level B), SMPTE 424M, SMPTE 292M BNC
 Sync In: Standard analog video sync separation for NTSC, PAL, 480I/P, 576I/P, 720P, and 1080I/P/PsF from Composite Video (CVBS). Bi-level & tri-level sync compatible. BNC
 CVBS Out: 75 Ohm Standard Definition Composite Video Output BNC
 SDI Out Banks: (2) 75 Ohm Outputs from decoder: Video/Audio/VBI (SMPTE 259M-C - SD & SMPTE 292M - HD) BNC

Demodulator (optional)*

RF 1 & 2: RF input, 75 Ohm F-Connector
 Standard (STD) Model: Supports L-Band, DVB-S/S2, QPSK 1-30 Mbaud & 8PSK 1-30 Mbaud
 Premium (PRM) Model: Supports L-Band, DVB-S/S2, QPSK 256kbaud -30 Mbaud, 8PSK 1 - 30 Mbaud.
 * Software Key field upgradeable to 16APSK and 32 APSK.

