

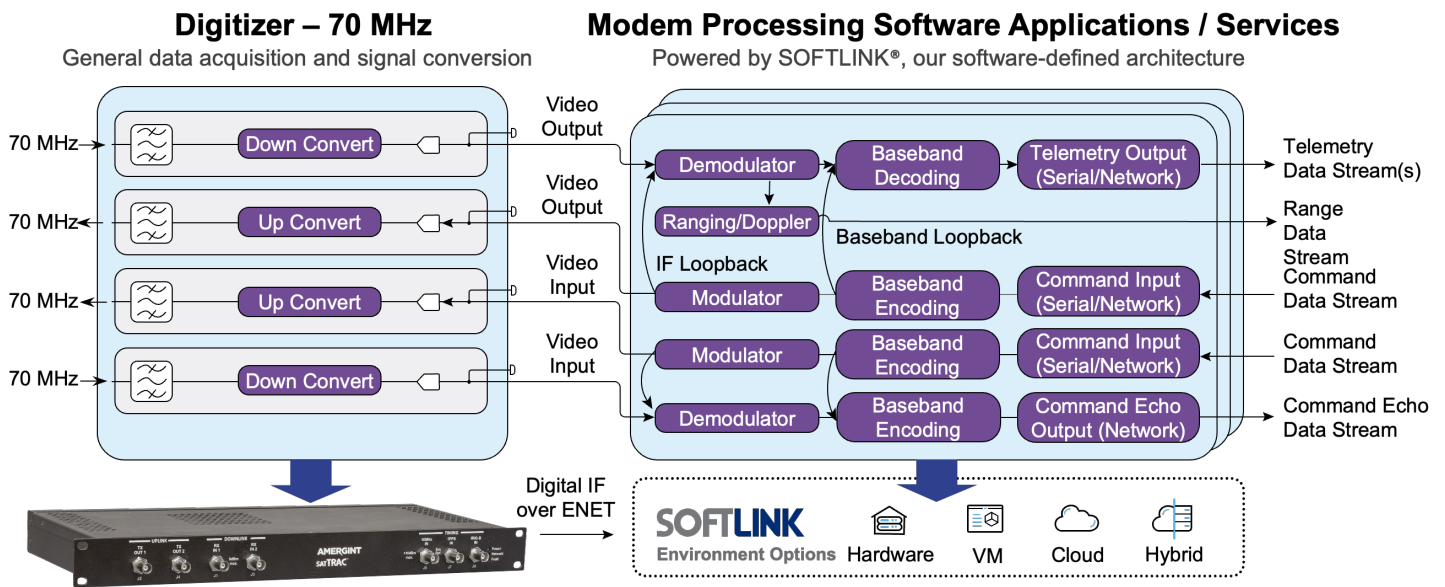
# 70 MHz DIGITIZER

## Use with our satTRAC® Modem

Our satTRAC Modem—a true software modem—uses one or more software applications / services and a variety of digitizer options to support a wide range of satellite TT&C, payload, communications, and test functions.

### 10+ YEAR HERITAGE

Low-risk, high-performance digitizer, backed by more than 10 years of operational heritage; interchangeable to support a variety of RF bands.



Visit our website for additional information on our satTRAC family of products.

## SPECIFICATIONS

TIMING & REFERENCE SIGNALS	SPECIFICATION
Frequency Reference	10 MHz
Internal Reference Accuracy	< 0.1 ppm
Time Reference Supported	IRIG-B, 1PPS, NTP
Time Reference Voltage Levels (for IRIG and 1PPS)	0.3 to 5 V peak-to-peak (IRIG) 5 V max (1PPS)
Timing Reference Impedance	50 Ohms
Timing Reference Switching Threshold	-10 dBm
Timing Reference Max Input Level	+10 dBm

ANALOG VIDEO I/O	SPECIFICATION
Video Input & Output Channels	2 In, 2 Out
Video Bandwidth	7.5 MHz

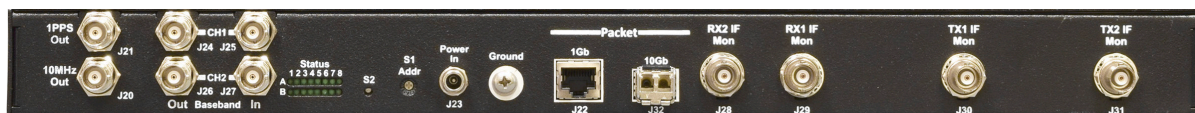
PHYSICAL INFORMATION	SPECIFICATION
IF Connectors	50 Ohm BNC
Weight	7.5 MHz
Server Dimensions	3.42 H x 17.53 W x 26.17 D (in)
satTRAC - 70 MHz Dimensions	1.75 H x 17.3 W x 7.3 D (in) 1.75 H x 17.1 W x 15 D (in) with 10 MHz phase-locked oscillator options

**SPECIFICATIONS (CONT.)**

IF OUTPUT	SPECIFICATION
Number of Output Channels	2
Output Frequency Tuning Range	65 to 75 MHz
Tuning Step Size	< 1 $\mu$ Hz
Instantaneous Bandwidth	40 MHz max
Output Power Range	-40 to +3 dBm
Output Dynamic Range	80 dB
Output Power Accuracy	+/- 0.5 dB
Output Impedance (nominal)	50 Ohms
Output VSWR	1.3:1
Output Spurious	< -65 dBc with output power from -30 to +3 dBm
Output Spurious with Analog Video I/O enabled	< -55 dBc with output power from -30 to +3 dBm
Sweep Modes	Triangle, Return to 0
Sweep Rates	10 kHz/s max
Sweep Limits	center-500 to center+500 kHz
Phase Noise:	
10 Hz	-70 dBc/Hz
100 Hz	-87 dBc/Hz
1 kHz	-100 dBc/Hz
10 kHz	-105 dBc/Hz
100 kHz	-115 dBc/Hz
1 MHz	-130 dBc/Hz
10 MHz	-133 dBc/Hz

IF INPUT	SPECIFICATION
Number of Input Channels	2
Input Power Range	-100 +0 dBm
Instantaneous Dynamic Range	74 dB max
Noise Figure	< 9.5 dB (typical) 12 dB max
VSWR	1.5:1
Input Impedance (nominal)	50 Ohms
AGC (31 dB range) time constant	0.001 to 1 seconds
Input Frequency Tuning Range	65 to 75 MHz
Instantaneous Bandwidth	40 MHz max
Tuning Step Size	< 1 $\mu$ Hz

ENVIRONMENTAL INFORMATION	SPECIFICATION
Server Temperature (Operating)	-5°C to 40°C
Server Temperature (Storage)	-40°C to 65°C
Server Relative Humidity	5% to 90% non-condensing
satTRAC-70MHz Temperature (Operating)	-5°C to 45°C
satTRAC-70MHz Temperature (Storage)	-40°C to 65°C
satTRAC-70MHz Relative Humidity	5% to 90% non-condensing


**70 MHz  
DIGITIZER  
FRONT**

**UNIVERSAL  
BACK**


[www.arka.org](http://www.arka.org)  
 @AMERGINT  
 @AMERGINT  
[amergint-technologies](http://amergint-technologies)

**FOR ADDITIONAL INFORMATION:**

2315 BriarGate Pkwy., Suite 100  
 Colorado Springs, CO 80920 USA  
 Tel: 719-522-2800 | Fax: 719-522-2810  
 Email: [info@amergint.com](mailto:info@amergint.com)