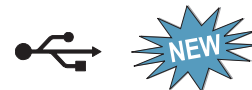


## Model 8334 Attenuator Profile Simulator Unit Ethernet, USB & RS232 Control

up to 6.0 GHz



**RoHS**

TABLEDATA	A	B	C	D	E	F	G	H	I	J
TABLEDATA 0	0	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	
TABLEDATA 1	1	1	2	3	4	5	6	7	8	
TABLEDATA 2	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5		
TABLEDATA 3	2	3	4	5	6	7	8	9		
TABLEDATA 4	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5		
TABLEDATA 5	3	4	5	6	7	8	9	10		
TABLEDATA 6	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5		
TABLEDATA 7	4	5	6	7	8	9	10	11		
TABLEDATA 8	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5		
TABLEDATA 9	5	6	7	8	9	10	11	12		



### Features

- /// Programmable attenuation update rates from 100  $\mu$ sec. per point to 1 sec per point in 100  $\mu$ sec intervals.
- /// External TTL trigger (with programmable polarity) allows for synchronization with other external hardware.
- /// Various TTL status outputs (Running, Programmable Sync, and Interval Update) for monitoring a profile.
- /// Supplied with industry standard communication interfaces:
  - RS-232 (Serial)
  - Ethernet Control (10/100 BaseT)
  - USB 2.0
- /// Rack Configurable: Rack ears are supplied.

### Description

Weinschel's 8334 Series of Attenuation Profile Simulators provide multi-channel high-speed attenuation control with synchronous output update capability. The unit allows for programming of up to 128K (131,072) attenuation data points per attenuator and sweeping through those data points at user-programmable intervals from 100  $\mu$ sec. to 1 sec. per point. The system provides for non-volatile storage of up to four data point tables which may be later recalled under user control. Status and control TTL signals are available for external monitoring and sweep control via a rear-panel DE9 connector.

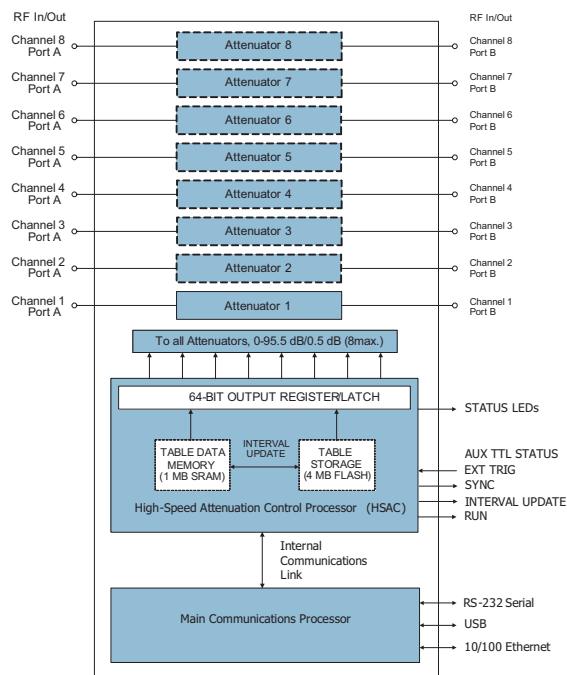
The 8334 Series are multi-channel configurations housed in 19 inch enclosures and can be configured for up to 8 attenuation channels. This series can be configured for front, rear or through (front to rear) RF signal routing.

Weinschel also provides custom subsystems where a variety of test configurations can be incorporated within a single unit. Contact us with your specialized needs.

### Applications

Applications for the 8334 Series include:

- /// Simulate path loss on each channel or mobility scenarios between a handset and multiple base stations.
- /// Create arbitrary, synchronous attenuation profiles with timing skews of <10 nsec. between channels to replicate precision fading and handover scenarios.
- /// Generate coherent, multi-channel pulsed RF outputs for a given attenuation level.



*Simplified 8 Channel Block Diagram*

*For additional information on the Model 8334, visit our website @ [www.aeroflex.com/AW8334](http://www.aeroflex.com/AW8334)*

## Specifications

SPECIFICATION	DESCRIPTION
<b>Input Power Requirements</b>	ac 100 to 240 Vac, 50/60 Hz, 180 Watts
<b>Environmental</b>	Operating Temperature: 0° to +50°C Storage Temperature: -40° to +167 °F (-40° to +75°C) Humidity: 96% (non-condensing) Altitude: 40,000' (12,192M)
<b>RS-232 Bus (1) Serial I/O</b>	Connector: 9-pin male D Signals: TXD, RXD, RTS, CTS, GND Baud Rates: 9600 to 230400 Data Bits: 8 Handshaking: None, RTS/CTS
<b>AUX</b>	Connector: 9-pin male D Signals: SYNC, EXT TRIG, INTERVAL UPDATE, RUN, GND
<b>USB 2.0</b>	Connector: Mini B
<b>Ethernet</b>	10/100 Base T Connector: Standard RJ45
<b>RF Characteristics(3)</b>	Refer to Configuration Matrix (below)

1. RS-232 can be used with standard PC serial port for short and medium distances (up to approximately 50 ft).
2. Refer to Individual data sheet for detailed specifications on internal programmables.

## Model Number Configuration Matrix

**8334 - M3 - XX - X N**

Basic Model Number

Attenuator Designator

Number of Channels (01 to 08)

Connector Type  
N = N Female

\* up to 6 Channel units only available for option F & R

Example: 8334-M3-08-TN

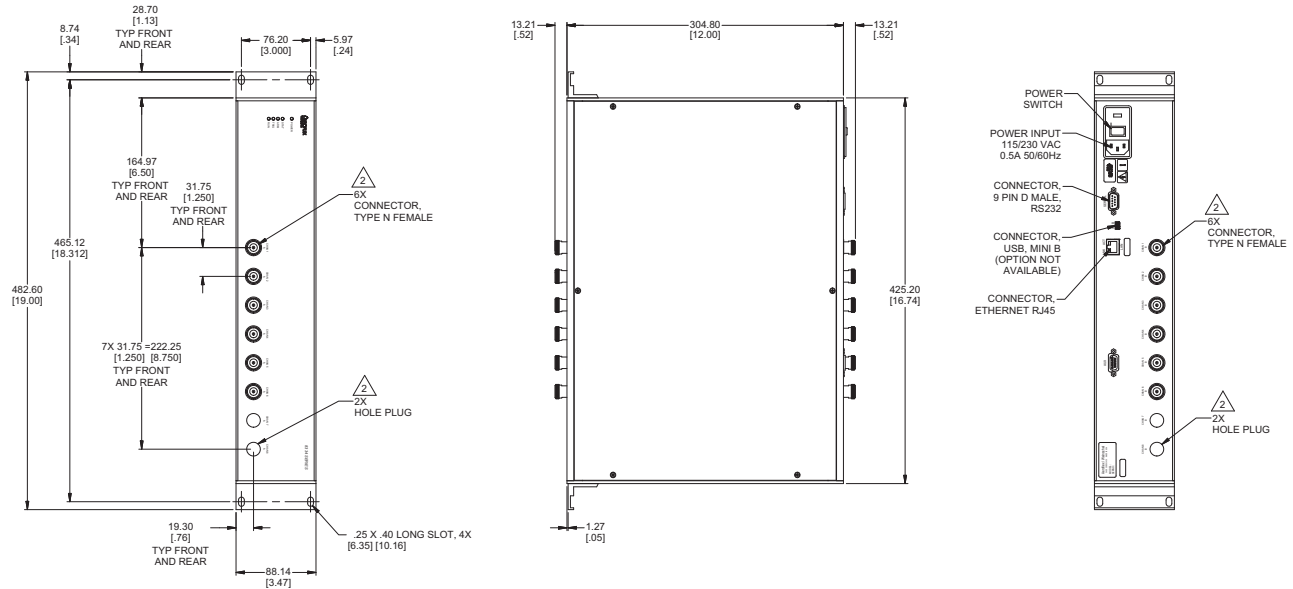
Connector Location  
F = Front \*  
R = Rear \*  
T = Thru

Solid State (Only)								
Frequency Range	Attenuator Designation		Attenuator Model	Range (dB)	Step Size (dB)	Insertion Loss (maximum)	VSWR (maximum)	<input checked="" type="checkbox"/> RoHs
0.2 to 6 GHz	M	3	4205-95.5	95.5	0.5	8.50 dB	2.0	<input checked="" type="checkbox"/>

**RoHs** compliance dependent on attenuator installed. Some attenuators are NOT compliant.

## Physical Dimensions

Standard 19 in Rack Unit up to 8 channels:



**NOTE:**

1. All dimensions are given in mm (inches).
2. Connectors and hole plugs are installed as required and determined by number of channel in unit. Six channel unit shown.
3. Connector location (Front/Rear) may vary depending on Model ordered.