

# 7803DA4–RF, 7803DA8–RF, 7803DA16–RF

## 40MHz to 3GHz RF 1x4, 1x8 and 1x16 Active Splitter



The 7803DA Active Splitters series provide amplification and distribution of RF signals from 40MHz to 3GHz. They handle any RF input modulation format and provide 4x, 8x or 16x isolated outputs for further signal distribution.

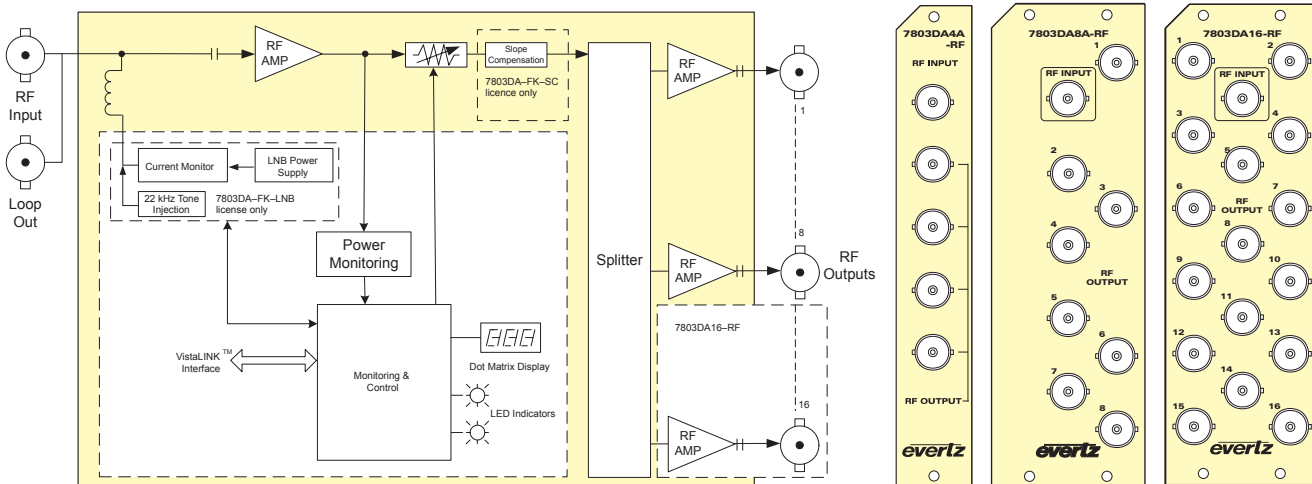
Monitoring of RF input power, card status, control of gain/attenuation of input, individual output gain/attenuation adjustment and slope compensation is provided remotely via VistaLINK® capability.

Direct fiber input feature is also available with accompanying with miniature 2307LR receiver. SmartMON™ capability allows inband monitoring data sent by a companion SmartMON™ enabled transmitter to be displayed locally or via SNMP/VistaLINK®.

The 7803DA4 model occupies one slot, whereas 7803DA8 and 7803DA16 models occupy two slots and can be housed in either a 1RU or 3RU frame. 1RU frame has four slots capacity whereas 3RU has 15 slots capacity.

### ►Features & Benefits

- Low noise amplification and distribution of RF signals from 40MHz to 3GHz
- Wideband frequency response for use with L–Band, 70/140MHz IF and off–air DTV signals
- Wide dynamic range (–10 to –60dBm)
- Protocol independent — handles all modulation formats
- Input RF signal strength monitoring
- Fully hot–swappable from front of frame
- Input signal gain of –10dB to +20dB adjustable in 0.5dB steps
- Individual adjustable output gain control, –20dB to 10dB in 0.5dB steps
- AGC mode with adjustable target level
- Active RF Loop out for signal monitoring
- Direct fiber input when accompanied with 2307LR receiver
- SmartMON™ capability allows inband monitoring data sent by a companion SmartMON™ enabled transmitter to be displayed via SNMP/VistaLINK®
- Optional licensed cable slope compensation adjustable up to 15dB in 1dB steps
- Optional licensed LNB power (@ +13 or +18V DC with built–in current limiting) and 22kHz tone for LO control
- LNB current monitoring with adjustable alarm thresholds for monitoring LNB health
- Web page and SNMP control capability is available when a 78x0FC is used



### ►Specifications

<p><b>RF Input:</b> Connector: BNC per IEC 61169–8 Annex A (F–Type optional) I/O Impedance: 75Ω (50Ω optional) Gain: –10dB to –20dB in 0.5dB steps Input Freq Range: 40MHz–3GHz Input Power Range: –10 to –60dBm Return Loss: Up to 850MHz: &gt; 15dB 850MHz–3GHz: &gt; 11dB LNB Power (with optional 7803DA–FK–LNB): 13/18 VDC selectable Current Limit: 500mA LO Control: 22kHz on/off</p> <p><b>Direct Fiber Input:</b> Fiber input: Utilizing Evertz 2307LR Compatible Transmitters: Evertz models 2408LT, 7708LT, 7807LT</p>	<p><b>SmartMon Feature:</b> Allows in–band monitoring data to be sent by transmitter (with 7803DA–FK–SM only)</p> <p><b>RF Output:</b> Number of outputs: 4, 8 or 16 Connector: BNC per IEC 61169–8 Annex A (F–Type optional) I/O Impedance: 75Ω (50Ω optional) Return Loss: 0–3GHz: &gt; 16dB Gain: –20dB to +10dB in 0.5dB steps Intermodulation Products: &lt; –50dBc (@ –15dBm output power and 0dB gain) &gt; 50dB (output to output) Isolation: Slope Compensation (with optional 7803DA–FK–SC): Adjustable, up to 15dB in 1dB steps across 170–2150Mhz</p>	<p><b>Frequency Response:</b> 70–200MHz: ± 0.5dB 70–850MHz: ± 0.75dB 950–2150MHz: ± 2.5dB 70–3000MHz: ± 3.7dB</p> <p><b>Physical (number of slots):</b> 7803DA4–RF: 1 7803DA8/16–RF: 2</p> <p><b>Electrical:</b> Voltage: +12V DC Power: 8W (not including LNB power)</p>
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### Ordering Information

<b>7803DA4–RF</b>	40MHz–3GHz RF 1x4 Active Splitter with VistaLINK®, SmartMON™, 75Ω BNC Connectors
<b>7803DA8–RF</b>	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, SmartMON™, 75Ω BNC Connectors
<b>7803DA16–RF</b>	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, SmartMON™, 75Ω BNC Connectors

#### Feature Keys:

<b>7803DA–FK–LNB</b>	Software feature key to enable LNB power feature on the input for the 7803DA
<b>7803DA–FK–SM</b>	Software feature key to enable SmartMON feature on the input for the 7803DA
<b>7803DA–FK–SC</b>	Software feature key to enable Slope Compensation feature on the output for the 7803DA

**Ordering Options:** *Rear Plate must be specified at time of order (Eg: Model +3RU)*

**Rear Plate Suffix:**  
**+3RU** 3RU Rear Plate for use with 350FR, 7700FR–C or 7800FR Multiframe

**Connector Suffix:**  
**+F75** 75Ω F–Type Connectors  
**–S50** 50Ω SMA Connectors  
**–B50** 50Ω BNC Connectors

**Enclosures:**  
**350FR** 3RU Portable Multiframe which holds up to 7x single slot modules  
**7700FR–C** 3RU Multiframe which holds up to 15x single slot modules  
**7800FR** 3RU Multiframe which holds up to 15x single slot modules  
**7801FR** 1RU Multiframe which holds up to 4x single or 2x dual slot modules