

7702DA4A-RF, 7702DA8A-RF, 7702DA16-RF, 7703DA4A-RF, 7703DA8A-RF, 7703DA16-RF

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

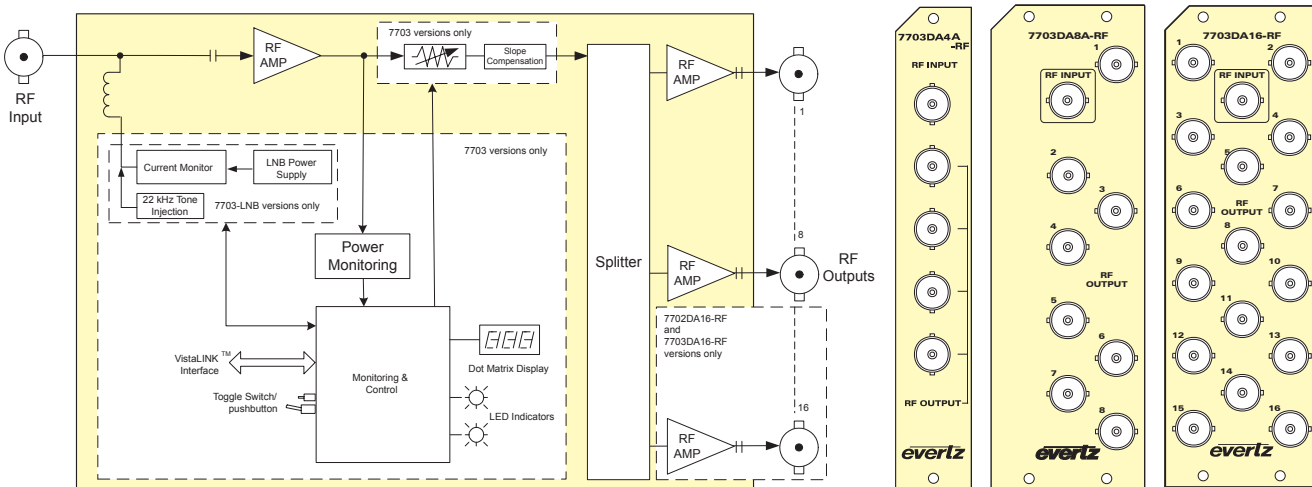


The Evertz 1x4, 1x8 and 1x16 RF active splitter series provide amplification, slope compensation and distribution of RF Signals from 40MHz to 3GHz. They handle any RF input modulation format and provide 4, 8 or 16 isolated outputs for further signal distribution.

The DA4 models occupy one card slot, whereas DA8 and DA16 models occupy two card slots and can be housed in either a 1RU frame, which holds up to three modules, a 3RU frame that holds up to seven modules, a 350FR that holds up to three modules, or a standalone enclosure that holds one module.

► Features & Benefits

- Cable slope compensation adjustable up to 15dB in 1dB steps
- 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)
- Output gain of -10dB to +20dB adjustable in 1/2 dB step on 7703 versions
- AGC mode with adjustable target level on 7703 versions
- Fixed gain of 0dB on 7702 versions
- Protocol independent — handles all modulation formats
- Passes a 10MHz reference signal
- Input RF signal strength monitoring on 7703 versions
- Fully hot-swappable from front of frame
- Optional LNB power (@ +13 or +18V DC with built-in current limiting) and 22kHz tone for LO control on 7703 versions
- 7703-LNB versions include LNB current monitoring with adjustable alarm thresholds for monitoring LNB health
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK® on 7703 versions
- VistaLINK® capability is available when 7703 modules are used with the 3RU 7800FR frame and a 7800FC VistaLINK® Frame Controller module in slot 1 of the frame



► Specifications

RF Input:
 Connector: BNC per IEC 61169-8 Annex A (F-Type optional)
 I/O Impedance: 75Ω (50Ω optional)
 Input Freq Range: 40MHz-3GHz
 Passes 10MHz reference signal

Input Power Range: -10 to -60dBm

Return Loss:
 7702 Versions:
 Up to 850MHz: > 10dB
 850MHz-3GHz: > 15dB
 7703 Versions: > 15dB

LNB Power(-LNB option):
 13/18 VDC selectable
 Current Limit: 500mA
 LO Control: 22kHz on/off

RF Output:
 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:
 Up to 2150MHz: > 15dB
 Up to 3GHz: > 13dB

Gain:
 7702 Versions: 0dB ± 2dB
 7703 Versions: -10dB to +20dB in 1/2 dB steps

Intermodulation Products:
 < -50dBc (@ -15dBm output power and 0dB gain)
 Slope: Adjustable, up to 15dB in 1dB steps across 170-2150Mhz

Isolation: > 40dB (output to output)

Freq Response (7702DA4A/8A/16A-RF):
 40MHz-200MHz: ± 0.5dB
 50MHz-850MHz: ± 0.5dB
 950MHz-2150MHz: ± 1.5dB
 40MHz-3GHz: ± 2dB

Freq Response (7703DA4A/8A/16A-RF):
 40MHz-200MHz: ± 0.5dB
 50MHz-850MHz: ± 0.75dB
 950MHz-2150MHz: ± 1.5dB
 40MHz-3GHz: ± 2.5dB

Physical (number of slots):
 7702DA4A-RF: 1
 7703DA4A-RF: 1
 7702DA8A/16A-RF: 2
 7703DA8A/16A-RF: 2

Electrical:
 Voltage: +12V DC
 Power: 8W (not including LNB power)

7702DA4A–RF, 7702DA8A–RF, 7702DA16–RF, 7703DA4A–RF, 7703DA8A–RF, 7703DA16–RF 40MHz to 3GHz RF 1x4, 1x8 and 1x16 Active Splitter

Ordering Information

7702DA4A–RF	40MHz–3GHz RF 1x4 Active Splitter, 75Ω BNC Connectors
7702DA4A–RF–B50	40MHz–3GHz RF 1x4 Active Splitter, 50Ω BNC Connectors
7702DA4A–RF–S50	40MHz–3GHz RF 1x4 Active Splitter, 50Ω SMA Connectors
7703DA4A–RF	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, 75Ω BNC Connectors
7703DA4A–RF–B50	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, 50Ω BNC Connectors
7703DA4A–RF–S50	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, 50Ω SMA Connectors
7703DA4A–RF–LNB	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, LNB Power, 75Ω BNC Connectors
7703DA4A–RF–LNB–B50	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, LNB Power, 50Ω BNC Connectors
7703DA4A–RF–LNB–S50	40MHz–3GHz RF 1x4 Active Splitter, with VistaLINK®, LNB Power, 50Ω SMA Connectors
7703DA4A–SC–RF	40MHz–3GHz RF 1x4 Active Splitter with Slope Compensation and VistaLINK®, 75Ω BNC Connectors
7703DA4A–SC–RF–LNB	40MHz–3GHz RF 1x4 Active Splitter with Slope Compensation, LNB Power and VistaLINK®, 75Ω BNC Connectors
7702DA8A–RF	40MHz–3GHz RF 1x8 Active Splitter, 75Ω BNC Connectors
7702DA8A–RF–B50	40MHz–3GHz RF 1x8 Active Splitter, 50Ω BNC Connector
7702DA8A–RF–S50	40MHz–3GHz RF 1x8 Active Splitter, 50Ω SMA Connector
7703DA8A–RF	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, 75Ω BNC Connectors
7703DA8A–RF–B50	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, 50Ω BNC Connectors
7703DA8A–RF–S50	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, 50Ω SMA Connectors
7703DA8A–RF–LNB	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, LNB Power, 50Ω BNC Connectors
7703DA8A–RF–LNB–B50	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, LNB Power, 50Ω BNC Connectors
7703DA8A–RF–LNB–S50	40MHz–3GHz RF 1x8 Active Splitter with VistaLINK®, LNB Power, 50Ω SMA Connectors
7703DA8A–SC–RF	40MHz–3GHz RF 1x8 Active Splitter with Slope Compensation and VistaLINK®, 75Ω BNC Connectors
7703DA8A–SC–RF–LNB	40MHz–3GHz RF 1x8 Active Splitter with Slope Compensation, LNB Power and VistaLINK®, 75Ω BNC Connectors
7702DA16–RF	40MHz–3GHz RF 1x16 Active Splitter, 75Ω BNC Connectors
7702DA16–RF–B50	40MHz–3GHz RF 1x16 Active Splitter, 50Ω BNC Connectors
7702DA16–RF–S50	40MHz–3GHz RF 1x16 Active Splitter, 50Ω SMA Connectors
7703DA16–RF	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, 75Ω BNC Connectors
7703DA16–RF–B50	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, 50Ω BNC Connectors
7703DA16–RF–S50	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, 50Ω SMA Connectors
7703DA16–RF–LNB	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, LNB Power, 50Ω BNC Connectors
7703DA16–RF–LNB–B50	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, LNB Power, 50Ω BNC Connectors
7703DA16–RF–LNB–S50	40MHz–3GHz RF 1x16 Active Splitter with VistaLINK®, LNB Power, 50Ω SMA Connectors
7703DA16–SC–RF	40MHz–3GHz RF 1x16 Active Splitter with Slope Compensation and VistaLINK®, 75Ω BNC Connectors
7703DA16–SC–RF–LNB	40MHz–3GHz RF 1x16 Active Splitter with Slope Compensation, LNB Power and VistaLINK®, 75Ω BNC Connectors

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
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Connector Suffix:
+F75 75Ω, F–Type rear connector

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
7701FR 1RU Multiframe which holds up to 3x single or dual slot modules
S7701FR Standalone Enclosure

