

# 7702DA8A-RF, 7702DA16-RF, 7703DA8A-RF, 7703DA16-RF

## 40 MHz-3GHz RF 1x8 and 1x16 Active Splitter

The 7702DA8A-RF, 7702DA16-RF, 7703DA8A-RF & 7703DA16-RF 1x8 and 1x16 Active Splitters provide amplification and distribution of RF signals from 40MHz to 3GHz. They handle any RF input modulation format and provide 8 or 16 isolated outputs for further signal distribution. Typical applications include amplification and distribution of 950MHz-2150MHz L-Band and 70MHz-140MHz IF signals.

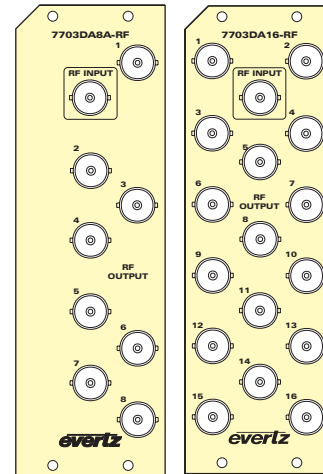
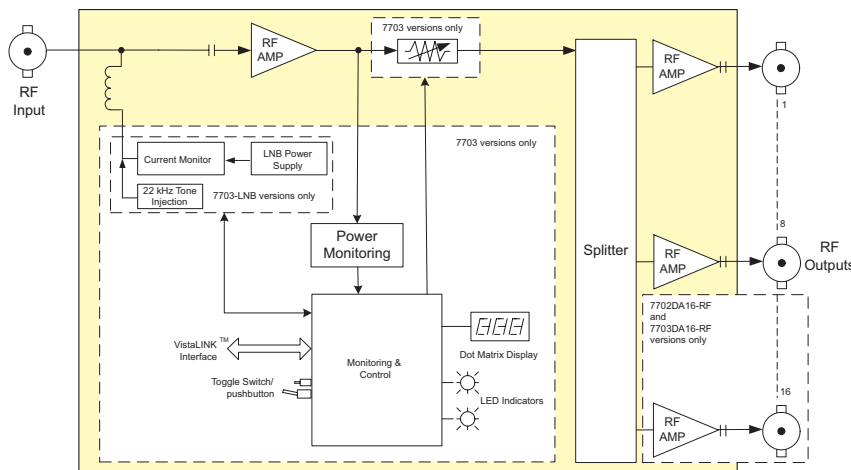
### ►Features & Benefits

- 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)
- 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
- Input RF signal strength monitoring on 7703 versions
- Fully hot-swappable from front of frame

Monitoring of RF input power, card status and control of gain/attenuation is provided remotely via VistaLINK® capability on the 7703 versions. Optional LNB power is available at the input connector on the 7703 versions.

The 7702DA8A-RF, 7702DA16-RF, 7703DA8A-RF & 7703DA16-RF occupy two card slots and can be housed in either a 1RU frame which holds up to 3 modules, a 3RU frame which holds up to 7 modules, a 350FR which holds up to 3 modules or a standalone enclosure which holds 1 module.

- 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 7700FC 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  
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: 400mA  
LO Control: 22kHz on/off

#### RF Output:

Number of outputs: 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)

Freq Response (7702DA8/16-RF):  
40MHz - 200MHz ± 0.5dB  
50MHz - 850MHz ± 0.5dB

950MHz -2150MHz ± 1.5dB  
40MHz - 3GHz ± 2dB

#### Freq Response (7703DA8/16-RF):

40MHz - 200MHz ± 0.5dB  
50MHz - 850MHz ± 0.7dB  
950MHz -2150MHz ± 1.5dB  
40MHz - 3GHz ± 2.5dB

#### Physical (number of slots):

350FR: 2  
7700FR-C: 2  
7800FR: 2

#### Electrical:

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

### ►Ordering Information

7702DA8A-RF	40MHz to 3GHz RF 1x8 Active Splitter, 75Ω BNC Connectors
7702DA8A-RF-B50	40MHz to 3GHz RF 1x8 Active Splitter, 50Ω BNC 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® LNB Power, 50Ω BNC Connectors
7703DA8A-RF-LNB-B50	40MHz-3GHz RF 1x8 Active Splitter with VistaLINK® LNB Power, 50Ω BNC Connectors
7702DA16-RF	40MHz-3GHz RF 1x16 Active Splitter, 75Ω BNC Connectors
7702DA16-RF-B50	40MHz to 3GHz RF 1x16 Active Splitter, 50Ω BNC 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® LNB Power, 50Ω BNC 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

#### 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 7 single slot modules  
7700FR-C 3RU Multiframe which holds up to 15 single slot modules  
7800FR 3RU Multiframe which holds up to 15 single slot modules  
7701FR 1RU Multiframe which holds up to 3 single or dual slot modules  
S7701FR Standalone Enclosure