

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

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



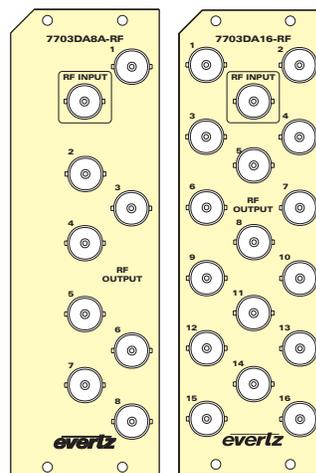
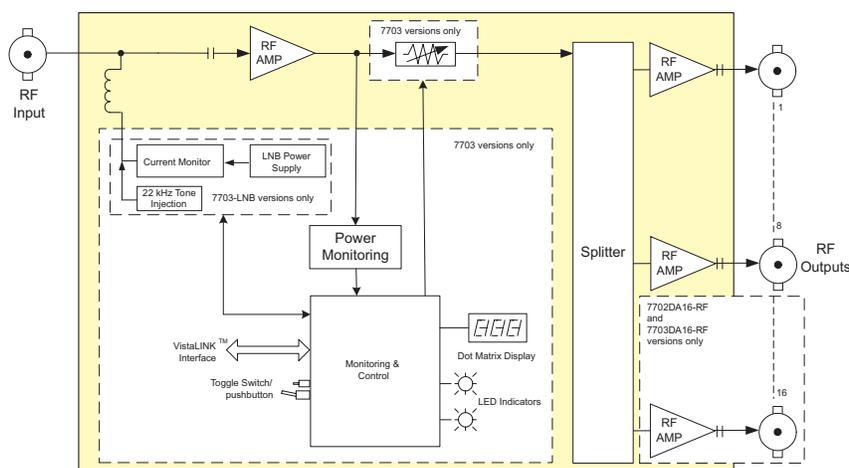
The 7702DA8A-RF, 7702DA16-RF, 7703DA8A-RF & 7703DA16-RF 1x8 and 1x16 Active Splitters provide amplification and distribution of RF signals from 40MHz to 3GHz. They handle any RF input modulation format and provide 8 or 16 isolated outputs for further signal distribution. Typical applications include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

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 or a standalone enclosure which holds 1 module.

►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
- 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: | | RF Output: | | 950MHz -2150MHz ± 1.5dB |
| Connector: | BNC per IEC 61169-8 Annex A (F-Type optional) | Number of outputs: | 8 or 16 | 40MHz - 3GHz ± 2dB |
| I/O Impedance: | 75Ω (50Ω optional) | Connector: | BNC per IEC 61169-8 Annex A (F-Type optional) | |
| Input Freq Range: | 40MHz-3GHz | I/O Impedance: | 75Ω (50Ω optional) | Freq Response (7703DA8/16-RF): |
| Input Power Range: | -10 to -60dBm | Return Loss: | | 40MHz - 200MHz ± 0.5dB |
| Return Loss: | | Up to 2150MHz: | > 15dB | 50MHz - 850MHz ± 0.7dB |
| 7702 Versions: | | Up to 3GHz: | > 13dB | 950MHz -2150MHz ± 1.5dB |
| Up to 850MHz: | > 10dB | Gain: | | 40MHz - 3GHz ± 2.5dB |
| 850MHz - 3GHz: | > 15dB | 7702 Versions: | 0dB ± 2dB | |
| 7703 Versions: | > 15dB | 7703 Versions: | -10dB to +20dB in 1/2 dB steps | Physical (number of slots): |
| LNB Power(-LNB option): | | Intermodulation | | 350FR: 2 |
| | 13/18 VDC selectable | Products: | < -50dBc (@ -15dBm output power and 0dB gain) | 7700FR-C: 2 |
| Current Limit: | 400mA | | | 7800FR: 2 |
| LO Control: | 22kHz on/off | Freq Response (7702DA8/16-RF): | | Electrical: |
| | | 40MHz - 200MHz | ± 0.5dB | Voltage: +12V DC |
| | | 50MHz - 850MHz | ± 0.5dB | 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 | 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 to 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 |