



Flex Max[®]

Flex Max 401 Cabinet Distribution Amplifier



- Patent pending automatic adaptive power control reduces power consumption by 14-21%*
- Maximum functionality and the smallest footprint in its class
- 1 GHz bandwidth
- Cabinet style housing
- Designed to work in the same architectures as the FM400 and MC4
- Plug in diplex filters
- Service Interruption Prevention (SIP)
- Full parts and labor warranty and 24/7 support

The Flex Max 401 Cabinet Distribution Amplifier is the latest addition to the ARRIS extensive line of 1 GHz optics, nodes and RF amplifiers. 1 GHz forward bandwidth future proofs HFC architectures and utilizes no more power than a 750/860 MHz system.

The Flex Max 401 provides a patent pending automatic adaptive power control which significantly reduces power consumption based on the amplifier RF output levels. The unit consumes on average 14-21% less power than comparable units at similar output powers*.

The Flex Max 401 cabinet design maximizes functionality in a dense, space-saving footprint and works within the same Flex Max400 and MC4 architectures offering even more features.

The parts and labor warranty is the best in the industry and is accompanied by the ARRIS world class 24/7 technical support.

Available Options

- Field upgradeable frequency split
- Plug-in ingress filter and return ingress switch
- Optional AGC with programmable pilot frequency
- EMS Monitoring with Value Max transponder
- Local powering option (265 VAC)**

*Based on Flex Max401 internal test data and published competitor's data.

**UL pending

Flex Max401 Cabinet Distribution Amplifier

Specifications

Physical

- Operating Temperature Range, °C (°F): -20 to +60 (-4 to 140)
- Dimensions (H x W x D), cm (in): 214.9 x 245.5 x 98.3 (8.5 x 9.7 x 3.9)
- Weight, kg (lbs): 3.5 (7.7) (uncrated)
- Housing finish : IP67 rated housing
- Powering: Remote: 28-65 VAC
Local: 85-265 VAC

Typical Operating Conditions

- Operational Gain, dB (± 1.0 dB¹):
Forward Path: 32,39,44
Return Path: 20,25,30
- Output Level², dB μ V: 115 @ 862 MHz
- Output Level², dBmV: 55 @ 862 MHz

Input/Output Port:

- Input Port: 1
- Output Port: 1 active with user configurable to 2, optional loop thru port

Notes:

1. Amplifier configured with 1 output, no loop thru at the input: includes diplex filters and 0dB jumpers.
2. According to EN50083-3, channel loading CENELEC42, interstage 8dB slope from 47 MHz to 862 MHz, CTB < -60 dBc, CSO < -60 dBc.

Power Consumption

Active Output	FWD Gain	Reverse Gain	Level Control	Max. Output Level	Power Consumption
1	44 dB	30 dB	AGC	115 dB μ V	23W
1	44 dB	30 dB	AGC	114 dB μ V	21W
1	44 dB	30 dB	AGC	113 dB μ V	19W

Channel loading, tilt, and flatness will contribute to available maximum power savings

For more information about the Flex Max401 Cabinet Distribution Amplifier, please refer to the following documents:

Title	Doc Number
Flex Max401 Product Ordering Document	FM401_P_0309
Flex Max401 Amplifier Equipment Manual	1504409
Cable Technician's Pocket Guide	MX0398J.pdf

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