Features and Benefits



1 GHz Universal Mount Digital Splitters CMC2000U Series

The Antronix CMC2000U Series Universal Mount Splitters are ideal for Network Interface Device (NID) box installations. Our universal mount digital splitters have been designed specifically for today's two-way broadband networks. Capacitively coupled F-ports block AC surges and prevent hum modulation. Low intermodulation distortion and excellent return band isolation prevent high power cable modem signals from distorting neighboring port signals.

Reliability, quality and performance define the Antronix CMC2000U series universal mount digital splitter. Every port on each CMC2000U series splitter is built to survive 6 kV ring wave surges, while our proprietary ferrites remain ultra-linear even after several surges. The universal mount design reduces cable bends inside NID enclosures; making installation easier and more reliable.

To ensure years of reliable performance, Antronix's digital splitters are encased in a Zinc Alloy diecast housing with Nickel Alloy plating. The splitter ports are sealed to 15 psi and SCTE compliant with 1 inch spacing. The CMC2000U series digital splitters employ high "Q" surface mount technology (SMT) components, guaranteeing consistent performance over time and temperature.



Universal Mount Design - Ideal for NID Enclosures

Universal mounting design allows for easy NID box installation in either the traditional vertical splitter method or new all ports facing down configuration.

Increases Reliability

Reduction in cable bends reduces stress on cables and connectors to increase reliability.

6 kV Ring Wave Surge Protected

All ports are protected against multiple 6 kV ring wave surges per IEEE specification C62.41 Category A3.

 -45 dBmV Spurious and Harmonics after 5 Surges of 6 kV Ring Wave with a +55 dBmV Return Signal

Proprietary ferrite blend inhibits re-magnetization of the core due to voltage spikes from impulse noise or lightning. The ferrite remains ultra linear to prevent intermodulation where high level return carriers can affect forward path video signals.

Digital Broadcast and HDTV Ready

Compatible with existing and future networks.

Flat 1 GHz Bandwidth with Minimal Insertion Loss

Supports present and future multimedia applications including video, data and telephony.

Eclipse Contact Technology (ECT) F-Port

Provides 400% more contact surface area for lower contact resistance and higher reliability.

Capacitively Coupled F-Ports

Protects against core re-magnetization and saturation while blocking AC surges.

• Zinc Alloy Diecast Housing and Backplate w/Proprietary Nickel Alloy Plating
Superior corrosion resistant plating combined with a diecast backplate protects the back of the housing where corrosion is more prominent.

100% Soldered Back

Ensures repeatable 120 dB RFI shielding.

1 inch Port-to-Port Spacing Flat 15 psi Sealed, SCTE Compliant F-Ports

Prevents water migration into the splitter and ensures an excellent ground connection.

UV Resistant Label



Electrical Specifications

CMC2000U Series 1 GHz Universal Mount Digital Splitters

| Model # | | CMC2002U | CMC2003U | | CMC2003BU | CMC2004U | CMC2008U | |
|------------------------|------------|----------|----------|-----|-----------|----------|----------|--|
| Specification | Freq (MHz) | Тур | Тур | Тур | Тур | | | |
| Insertion Loss | | | | | | | | |
| Maximum (dB) | 5-14 | 3.2 | 3.2 | 6.5 | 4.9 | 6.5 | 10.3 | |
| | 14-40 | 3.3 | 3.3 | 6.5 | 5.0 | 6.5 | 10.2 | |
| | 40-200 | 3.3 | 3.3 | 6.5 | 5.0 | 6.5 | 10.1 | |
| | 200-550 | 3.3 | 3.3 | 6.6 | 5.2 | 6.6 | 10.3 | |
| | 550-750 | 3.5 | 3.5 | 7.0 | 5.5 | 7.0 | 10.7 | |
| | 750-1002 | 3.7 | 3.7 | 7.6 | 5.9 | 7.2 | 11.0 | |
| Isolation | | | | | | | | |
| Minimum (dB) | 5-14 | 32 | 35 | | 31 | 38 | 38 | |
| | 14-40 | 46 | 39 | | 42 | 44 | 42 | |
| | 40-200 | 44 | 30 | | 40 | 43 | 41 | |
| | 200-550 | 34 | 28 | | 33 | 37 | 38 | |
| | 550-750 | 32 | 28 | | 33 | 32 | 30 | |
| | 750-1002 | 32 | 27 | | 31 | 30 | 27 | |
| Input Return | Loss | | | | | | | |
| | 5-14 | 42 | 34 | | 36 | 27 | 30 | |
| Minimum (dB) | 14-40 | 30 | 25 | | 38 | 22 | 31 | |
| | 40-200 | 32 | 26 | | 31 | 23 | 31 | |
| | 200-550 | 35 | 29 | | 24 | 28 | 24 | |
| | 550-750 | 31 | 28 | | 27 | 28 | 23 | |
| | 750-1002 | 22 | 25 | | 24 | 28 | 28 | |
| Output Retu | rn Loss | | | | | | | |
| | 5-14 | 30 | 27 | | 28 | 27 | 26 | |
| Minimum (dB) | 14-40 | 38 | 34 | | 35 | 36 | 31 | |
| | 40-200 | 41 | 32 | | 31 | 34 | 30 | |
| | 200-550 | 39 | 29 | | 28 | 34 | 30 | |
| | 550-750 | 32 | 29 | | 31 | 29 | 28 | |
| | 750-1002 | 26 | 25 | | 26 | 27 | 28 | |
| RFI Isolation | | | | | | | | |
| dB (min) | 5-1002 | 120 | | | | | | |



Specifications subject to change without notice



Specifications

CMC2000U Series 1 GHz Universal Mount Digital Splitters

| General | | | | | | |
|-----------------------|---|--|--|--|--|--|
| Nominal Impedance | 75 Ω | | | | | |
| F-Connector Type | ANSI/SCTE-01 (formerly SCTE IPS-SP-400) Compliant ECT F-Port | | | | | |
| Surge Withstand | 6 kV Ring Wave Surge per IEEE C62.41 Category A3 | | | | | |
| Second Harmonic | -45 dBmV after Five 6 kV Ring Wave Surge with a +55 dBmV Return Input Carrier | | | | | |
| Environmental | | | | | | |
| Pressure Seal | 15 psi | | | | | |
| Operating Temperature | -40 °C to 60 °C | | | | | |
| Corrosion Resistance | Meets SCTE/ANSI Specification | | | | | |

| Physical | | | | | | | | |
|-----------------------------------|-------------|------------|------------|--|--|--|--|--|
| Dimensions (Tol. ± 0.5mm) | Height (mm) | Width (mm) | Depth (mm) | | | | | |
| Model | | | | | | | | |
| CMC2002U | 1.6 (40.6) | 2.4 (61.0) | 1.2 (30.5) | | | | | |
| CMC2003U CMC2003BU CMC2004U | 1.8 (45.7) | 2.3 (58.4) | 1.2 (30.5) | | | | | |
| CMC2008U | 2.9 (73.7) | 3.5 (88.9) | 1.1 (27.9) | | | | | |

Ordering Information

CMC20XXU

Application - NID Boxes

All ports facing down



Traditional mount

Style
U - Universal Mount Splitter
BU - 3-Way Balanced Output Splitter
Number of Ports
02, 03, 04 or 08
Capacitively Coupled
1 GHz Splitter

CMC2000U-Series Universal Mount Splitters