



## Arris E6000

The E6000 Converged Edge Router (CER) is a next-generation CCAP-ready platform that provides cable operators unprecedented advances in channel density, power efficiency, and cost savings in a redundant, integrated architecture designed from the ground up for high availability. The E6000 CER software is based on that of the C4 CMTS, meaning that the E6000 benefits from over ten years of refinements in stability,



## Features

- MPLS L2 VPN
- MPLS L3 VPN
- Hitless Bonded Modem Load Balancing via Dynamic Bonding Change
- Hitless Bonded Modem Movement via DBC initiated by CLI
- Intelligent TCS Assignment/Balancing
- Intelligent RCS Assignment/Balancing Control
- Upstream Channel Bonding with up to 8 Channels in the Bonding Group
- Five to 85 MHz Upstream Support
- Ability to Assign Upstream Channels Across Connector Groups
- IPv6 Extended ACLs
- IPv4 /31 Subnet Support on NSI
- IPv6 /127 Prefix Support on NSI
- Lawful Intercept with Replication up to three Mediation Devices
- TCS Reduction Enhancement
- Flap List Insertions
- Partial Service Enhancement

## Specification

| RF DOWNSTREAM                               |   |
|---|---|
| Frequency Range (MHz) Gen 1 DCAM            | 57 to 999 (DOCSIS 3.0)<br>90 to 1002 (EuroDOCSIS 3.0) |
| Frequency Range (MHz) DCAM 2                | 108 to 1218   |
| RF Output Level (dBmV)                      | 25 to 60 (SC-QAMs)                                    |
| Typical Modulation Error Ratio (MER) (dB)   | 47  |
| Modulation (QAM)                            | 64, 256, DOCSIS 3.1                                   |
| Data Rate (Mbps) (Max.)                     | 30.34 to 55.62 per channel (SC-QAMs)                  |
| Output (load) impedance (Ohms)              | 75  |
| PHYSICAL                                    |   |
| Power (Gen 1)                               | -48 VDC ( 40 to 72 VDC)                               |
| Power (Gen 2)                               | -48 VDC ( 44 to 72 VDC)                               |
| Power Consumption (full fill Gen 1 system)  | 3,800 W nominal at 48 VDC, 77 F (25 C)                |
| Power Consumption (full fill Gen 2 system)  | 5,800 W nominal at 48 VDC, 77 F (25 C)                |
| Operating Temperature:<br>Short Term F (°C) | +23 to +131 (5 to +50)                                |
| Long Term F (°C)                            | +41 to +104 (+5 to +40)                               |
| Storage Temperature F (°C)                  | -40 to +158 ( -40 to +70)                             |
| Operating Humidity (Min. Max.)              | 5 to 85% (Non condensing)                             |
| Dimensions (H x W x D) in. (cm)             | 28 x 17.4 x 32.5 (72.0 x 44.2 x 82.6)                 |
| Weight lbs. (kg) (full fill system)         | Approx. 235 (107)                                     |

## Security measures

The detailed Safety Guide is part of the User's Guide, please read and follow the instructions carefully.

- Do not look directly at the fiber source of the optical cable or the end of the connected optical cable, as the radiation is invisible to the human eye and may damage the retina.
- Do not bend the optical cable. Bending the cable can cause internal damage to the optical fiber.
- Do not touch the end of the optical cable. For best performance, it is important to keep it clean.

## SAFETY INSTRUCTIONS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR USING THE PRODUCT.

MAKE SURE TO FOLLOW THE INSTRUCTIONS FOR USE.

To reduce the risk of fire, electric shock, and injury to persons, follow basic safety precautions when using this product including:

- Always follow the installation instructions in the User's Guide.
- Do not connect or use the product during a storm. Interference transmitted by the electrical and / or telephone network may cause product malfunction and electric shock.

The product must be installed and used indoors; the lid of the product must not be covered. Plastic bags can cause suffocation. Keep these out of the reach of children.

## **ENVIRONMENTAL CONDITIONS**

The product is intended for stationary use in offices or residential areas with temperatures up to 45 ° C (113 ° F).

Do not install in a location exposed to direct and excessive sunlight and / or radiant heat. It must not be placed in a place where heat build-up may occur and may not be exposed to moisture or condensation. Can be installed in an environment of pollution level 2

## **WATER AND MOISTURE**

Do not install the product in a humid or dusty environment. Do not allow to come into contact with water or other liquids. No liquids should get inside the product. Do not use the product on wet fixtures near the bathtub, washbasin, sink, washing machine, in the wet cellar or by the swimming pool. If liquid or any other substance gets inside the machine, turn off the machine immediately or unplug the power cord from the electrical outlet. Continued use may result in electric shock or fire. When the product is transferred from a cold to a warm environment, condensation may form on some internal components. Allow the appliance to dry before operating it again.

## **MAINTENANCE AND CLEANING**

Before cleaning, unplug the machine from the electrical outlet, and then unplug the computer and the computer.

Do not use liquid cleaners or sprays, chemicals that can damage plastic batteries, or substances that contain alcohol, benzene, thinner, or other flammable products. Use of these products may result in fire. To reduce the risk of electric shock, do not disassemble this product.

The device does not contain non-professional replaceable parts; it is therefore unnecessary to open it. Opening or removing covers may expose you to dangerous voltage points. Improper assembly may result in electric shock the next time you use it. If the device malfunctions, contact your service provider's customer service.

## **ELECTRIC POWER SUPPLY**

Use the product only with the supplied AC adapter. Connect them to the mains as described in the installation instructions and on the identification sticker (mains voltage, current, frequency) on the device's power supply.

Using a power source other than that recommended for this product may cause the product to overheat or deform, resulting in electric shock or fire.

## **ACCESSIBILITY AND ELECTRICAL OVERLOAD**

To disconnect the device in the event of a problem, make sure that the outlet to which the power cord is connected is easily accessible and as close as possible to the device.

Do not overload wall outlets and extension cords as this might increase the risk of fire or electric shock.

## DAMAGES REQUIRING REPAIR

Unplug this product and contact your service provider if you experience any of the following:

- if the power supply or plug is damaged;
- if any of the supplied cables are damaged or broken;
- if liquid has been spilled into the unit or if the unit has been exposed to rain or water;
- if the device does not work properly or there are significant differences in performance;
- if the device has been dropped or damaged in any way;
- if you notice signs of overheating;

Arris certifies that this product meets the essential requirements and requirements set out in Directive 2014/53 / EU.

This mark certifies the safety of the equipment for the safety and health of users, the electromagnetic compatibility of the equipment, the proper use of the radio frequency spectrum and the reduction of the environmental impact of the product.

The frequency bands and maximum transmission power used by the product are as follows:



- 2400 - 2483.5 MHz: 100 mW
- 5150 - 5350 MHz: 200 mW
- 5470–5725 MHz: 1 W

This symbol indicates that your old electronic equipment should be collected separately and not can be disposed of with household waste. To this end, the European Union has set up a special collection and recycling system for which producers are responsible.



- Local collection points are available
- A free return system is available at distribution points to purchase equivalent equipment.
- Follow sorting rules for packaging waste to facilitate recycling.