The openGear Frame

OG3-FR-CN

Apantac openGear implementation uses the OG3-FR-CN frame that comes with cooling and Advanced GigE Network Control.

This frame has superior flexibility, power and control from the 3rd generation openGear® platform. The broadcast world's first and only open-hardware platform, and your platform of choice for your broadcast infrastructure needs.
openGear 3.0 is the evolution of the industry's first and only open hardware and software platform. The next generation openGear frame, OG3-FR combines function, flexibility and power with advanced features like high powered 450 watt redundant power supplies, Gigabit Ethernet access to every card slot, 20 openGear card slots, dedicated 21st and 22nd card slots for network control and internal reference distribution, and a front LCD display for easy frame, IP address and fault identification.

Modular Frame Architecture

The OG3-FR offers the flexibility of independent rear modules for connectivity to a wide array of interfaces such as BNC, twisted-pair audio, and fiber. The independent rear modules are available in different I/O configurations for select cards, including high density split rear modules allowing up to 20 independent openGear cards in the OG3 frame.

Robust Power Supplies

The OG3-FR can accommodate 2 front-loaded PS-OG3 power supplies. The split outside location of the power supplies makes installation a breeze when utilizing an alternate phase power source. A single 450 watt supply can fully power a loaded frame, and the addition of a second (optional) supply gives the frame full power redundancy. Each power supply contains an independent cooling fan, status LED, and a front mounted power switch.

Cooling

The OG3-FR frame has been designed with an advanced cooling architecture with increased ventilation. Front door mounted cooling fans provide forced air cooling to all cards with front to back airflow. An intelligent fan controller adjusts fan speed with changes in power supply loading and temperature. The front door assembly can be removed without tools for quick and easy maintenance.

Control

The OG3-FR comes standard with Ethernet connectivity for basic configuration and monitoring of openGear cards through the DashBoard control system. An optional advanced networking card, the MFC-8322-N, adds an on-board Gigabit Ethernet switch, with GigE access to each of the 20 processing card slots.
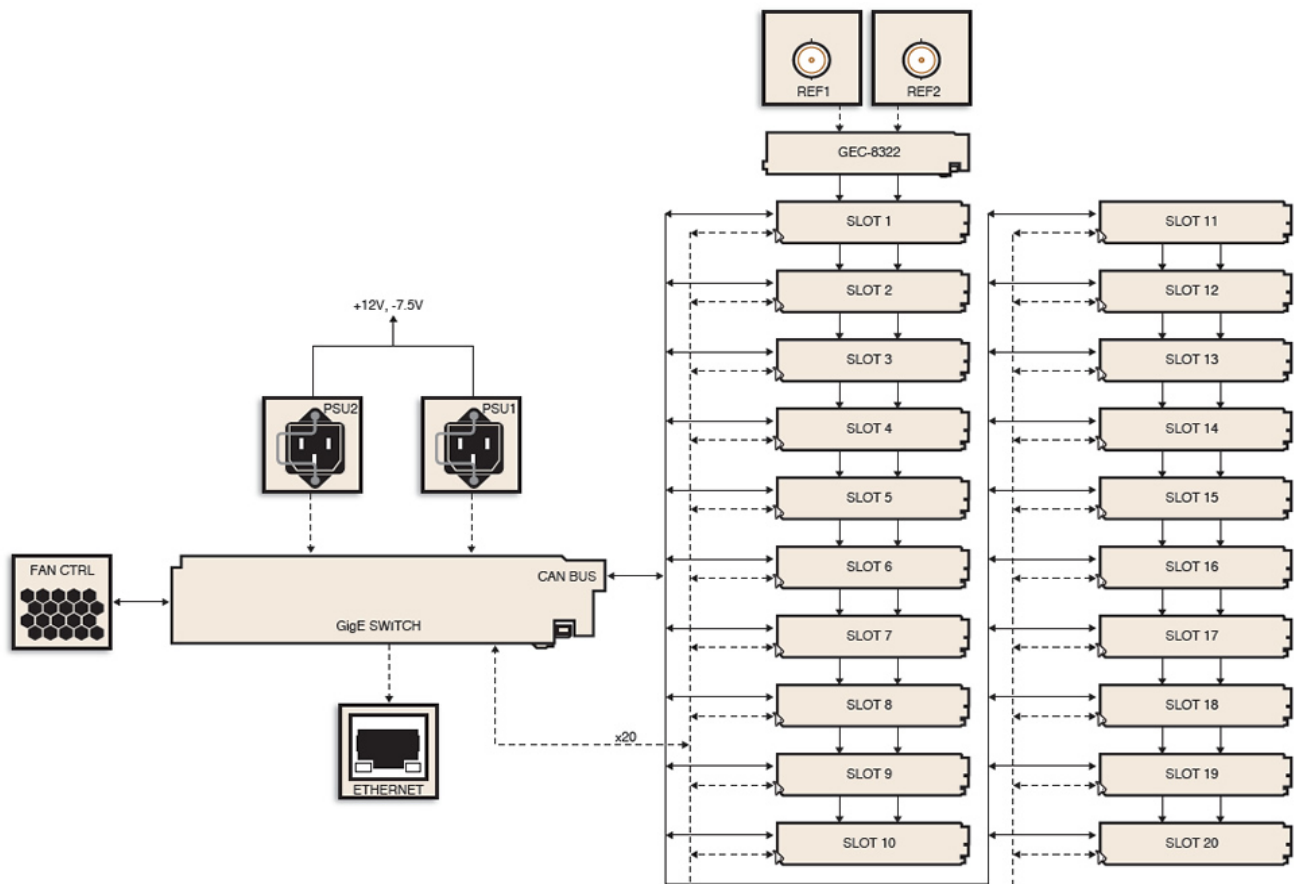
Gigabit Ethernet

The openGear 3.0 frame offers optional gigabit Ethernet to every slot within the OG3-FR chassis, enhancing communication, speed, and connection options to all openGear cards. The openGear 3.0 frame provides more communication options and flexibility to openGear card manufacturers, ultimately enhancing the openGear platform and experience. The 21-port Ethernet switch, built in to the frame's network control card, future-proofs the openGear 3.0 platform for users and openGear partners for years to come. Gigabit Ethernet is only available with the Advanced Network Control option.

Features

- Robust 450 watt power supply with integral cooling
- Standard Ethernet connectivity
- Optional advanced Ethernet based frame controller with GigE to every slot
- 2RU frame houses up to 20 openGear cards
- Supports any mix of analog, digital, video, and audio modules in the same frame
- Modular I/O panels for connector flexibility
- Removable front door for easy fan servicing
- Frames come standard with cooling
- Front LCD display for name, IP and fault identification
- 2 independent looping references with connection to each card slot
- Optional redundant power supply, hot-swappable for 24/7 operation
- 5-year warranty

Dashboard Control