

openGear **OGX** Frame



The openGear OGX frame is a 2RU high chassis compatible with any openGear card. The frame offers a 20-slot capacity with shared network across cards, optimized cooling as well as redundant power supply capability. It is optimized for video over IP applications for broadcast, enterprise, government or federal markets.

openGear OGX Frame

Designed by Ross Video, openGear is an open-architecture modular frame system supported by a diverse range of equipment manufacturers. Suitable to IP video projects, openGear delivers reliability and performance for continuous operation, with adaptive cooling, redundant power supplies and hot swappable capability. The platform offers the freedom to choose technology from a wide range of products for the broadcast, enterprise and sports markets. VITEC provides IP encoding and decoding openGear cards to address dense IPTV applications such as distribution, remote production, contribution and more.

The openGear OGX frame provides density and flexibility allowing a mix and match of cards and allows up to 20 single slot cards in the same chassis.

Front Panel

Integrated LCD display provides frame name, IP address and reports any alarms.

Reliability

Expertise of engineering and broadcast experience have been poured to ensure OGX is up to the demand task of 24/7 operation. The system includes integrated smart cooling with redundant cooling for the power supplies and an easy-to-clean air filter. All components are hot swappable and redundant power supply is available as an option.

Compatibility

openGear OGX frame is dedicated to video processing. Its standard allows to ensure the compatibility between VITEC openGear cards and openGear products from certified partners and thus to create its own customized application.

Features & Benefits

- 2RU frame houses up to 20 openGear® single-slot cards or up to 10 dual-slot cards
- Supports any mix of analog, digital, video, audio, SDI and IP modules in the same frame
- Shared Gigabit Ethernet port for simplified card management and configuration
- Shared Genlock Reference across cards (x2)
- 600W power supply with integral cooling, redundant power supply as an option
- Front LCD display for name, IP address and fault identification
- FrameGlow customized identification and alarming
- Removable front door for easy fan servicing and air filter maintenance
- Standard Dashboard control system for setup, control and monitoring
- Optional SNMP control and monitoring

openGear with VITEC Products

A VITEC openGear card includes a main board and a rear I/O module which can be single or several slots wide. MGW Ace Decoder OG or MGW Diamond OG encoder from VITEC uses Full rear I/O modules which are two slots wide. VITEC openGear cards can be mounted both in OGX and OG3 chassis.

The openGear flexibility coupled with VITEC openGear cards allow several configurations, such as fitting in a 2RU:

- x10 UHD HEVC decoder for multichannel / dense decoding applications such as contribution or direct-to-web applications (x10 MGW Ace Decoder OG)
- x10 UHD HEVC encoder for 4K contribution (x10 MGW Diamond OG)
- x40 HD HEVC/H.264 encoding channels for IPTV distribution (x10 MGW Diamond OG)
- x8 HD encoding/decoding channels for full-duplex applications (x2 MGW Diamond OG and x8 MGW Ace Decoder OG)
- x20 HD HEVC/H.264 encoding channels for IPTV distribution from HDMI (x10 MGW Diamond Hx OG)

VITEC Solution's Highlights

- Scalable and flexible solution with VITEC openGear cards
- Reliable solution thanks to VITEC proven hardware and openGear frame redundant power supply
- SD to 4K support, HEVC end to end solution
- Large protocol support for best interoperability
Reliable Stream Transport protection for QoS (support for Zixi, SRT, RIST and Pro-MPEG)

Rear Panel interface



Technical Specification

Network Interface

- Two frame flavours available for different network capabilities:
- 17580 OGX frame: 1x Gigabit Ethernet port shared between cards plus connectivity with Dashboard
- 18245 OGX frame: 1x 100Mbit/s Ethernet port for communication with Dashboard

Genlock Interface

- 2x Genlock inputs with loopthrough
- Blackburst or Tri-Level, 1Vpp

Environmental / Regulation

- Power : 600W maximum (45W per 2-slot card).
100-240VAC with redundant power supply as an option
- Operating Temperatures: 5 °C to +40 °C (32°F to 104 °F)
- Dimensions:
3.5" H x 19" W x 16.82" D
(90 mm H x 483 mm W x 427 mm D)

Ordering Information

17580 - openGear OGX frame with Cooling and Advanced Networking (x1 GbE)

18245 - openGear OGX frame with basic networking

00222 - Redundant Power supply for openGear OGX frame