The EQX–IP18–IPG is an 18 channel hybrid EQX input module that will allow existing or new EQX routers the ability to be bridged to the IP world. This IP Gateway module is fully featured with the the ability for encapsulation and de–encapsulation of video signals over IP. There are 18 inputs to the EQX that can be selected from either baseband inputs or 10GbE IP sources, each of the 18 inputs have a frame sync designed to re–time the input video signal to the EQX frame reference signal. The EQX–IP18–IPG can also de–embed the audio from the selected 18 input video signals for packetized TDM audio routing.

The EQX Input and IP Gateway Module provides a future–proofing answer to SDI based router and infrastructure, allowing a smooth integration under the MAGNUM Unified Control system for Evertz' Software Defined Video Network (SDVN) solution.

Like all other EQX input cards, the EQX–IP18–IPG is cooled by the EQX–FAN–BIN, fully hot–swappable and accessed from the front of the EQX frame. The EQX router can be loaded with a maximum of 32x EQX–IP18–IPG modules providing square and non–square matrix configurations from as small as 18 inputs through to 576 inputs.

The EQX–IP18–IPG hybrid input card provides a gateway to link into IP infrastructures as well as allow a more efficient way to tieline routers together. IP–based video packetized and transported over fiber will provide greater density and longer distances than coax based solutions would yield, yet still maintaining the low latency and proper SDI SMPTE switching capabilities in the EQX.

For added system flexibility the EQX–IPG–DIN–RP can be used with a standard 18 input 3G and HD Green modules utilizing our IP ready adapter module.
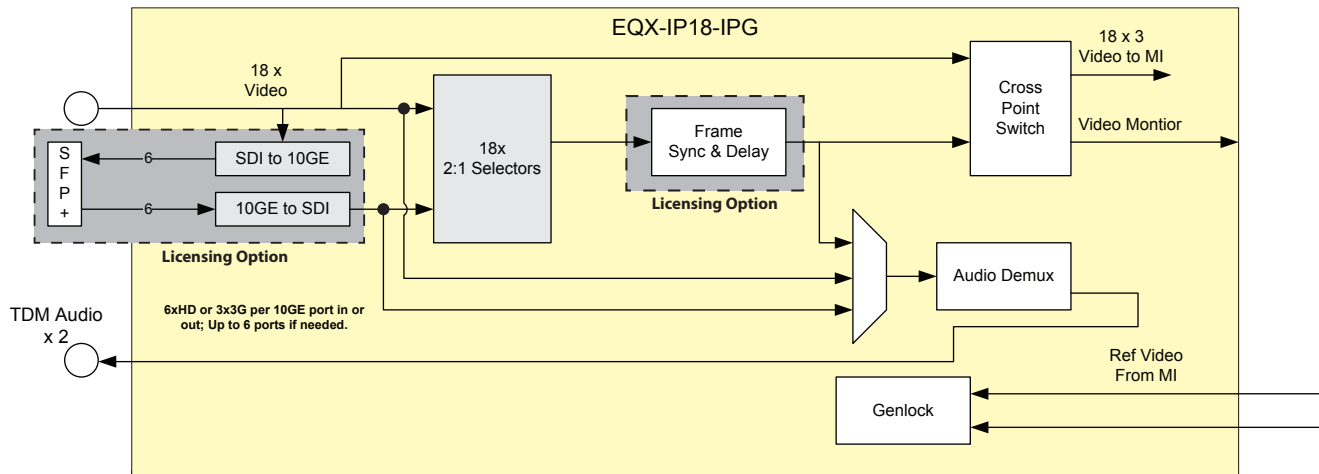
▶ Features & Benefits

- 18x SD/HD/3G SDI inputs
- 18x uncompressed IP inputs (de–encapsulators)
- 18x uncompressed IP outputs (encapsulators)
- 10GbE interfaces
- Full Audio demux (AVIP) for all sources (SDI or IP, 18 total), over TDM so that it can be routed/processed separately
- Control is made simple using MAGNUM Unified Control System
- *Fully compatible with all EQX frame models*

- * *Full frame sync for all sources (SDI or IP, 18 total)*
- 4 additional frames of delay can be added
- Output phase adjustment with respect to reference
- Input expansion in increments of 18, from 18 through to 576
- Access to all modules from front of the EQX
- All modules are hot–swappable
- Fan cooled by EQX–FAN–BIN

▶ Specifications

Video Input:
Formats: SMPTE ST 259, SMPTE ST 292–1, SMPTE ST 424, ASI, ASPEN, SMPTE ST 2022–6, SMPTE ST 2110

Number of video Inputs: 18

TDM Output:
Number of TDM outputs: 2

Ethernet Interface:
Ethernet/IP Signaling: Multicast IGMP V2/V3
Connectors: 6 SFP+

Physical Module (number of slots in EQX Frame): 1

▶ Ordering Information

EQX–IP18–IPG	EQX Input and IP Gateway Module

SFP+ Modules: *Contact factory for additional interface options*
+SFPTR13–10G 10GbE optical 1310nm Network Transceiver

Rear Panel: *Contact factory for fiber input options*
EQX–IPG–DIN–RP Supports up to 2x EQX–IP18–IPG

Licencing options:
+10GE IP encapsulation, IP de–encapsulation (+FSE18 option required)
+FSE18 Frame sync and delay

Future–proofing IP–ready solution using standard input card and IPG RP, please contact factory for details.