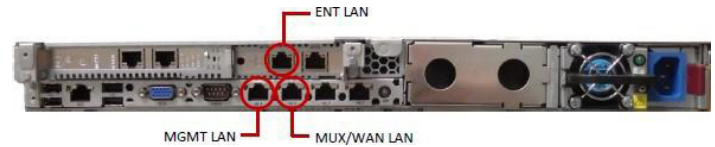# HX IP Gateway

The IPGW is a high-performance IP processing server within the HX satellite system featuring a very compact design and the capability to process IP packets forwarded/ received over the space link for enterprise networks, using Hughes proprietary software. Designed to operate in the Hughes HX System, the IPGW is housed in a standalone server occupying one Rack Unit (RU). The IPGW interfaces with other components, such as satellite gateway and DNCC in order to forward and receive the user traffic. The IPGW is responsible for traffic optimization functions, such as TCP acceleration, payload and header compression. Each IPGW can process capacity in excess of 40 Mbps of user traffic.

Supported Features

The service plan-based flow control feature allows IPGW to compute the Flow Control Meter (FCM) based on the service plan configuration. The IPGW performance optimizations enable an IPGW instances running on a High Capacity (HC) IPGW server to support up to 80 Mbps of throughput. The IPGW performance optimizations enable an IPGW instances running on a High Capacity (HC) IPGW Server to support up to 80 Mbps of throughput.

The WFQ feature introduces a mechanism to assign percentage weights to different user CoS queues in order to rectify the complete starvation of lower CoS traffic due to higher CoS traffic. These weights act as a percentage of user CIR to be reserved for a particular CoS when bandwidth contention between different CoS traffic arises.

The Compression feature allows the IPGW to compress IP payload for UDP packets in both the inroute and the outroute directions. With this feature, the remote and the IPGW compress UDP packets before transmitting and decompress them after receiving using the LZJH algorithm. The IPGW can be configured with multiple equipment to support redundancy, availability, and higher performance geographical hub redundancy for mission-critical services.

Network Management

The IPGW is fully integrated into the Hughes Network Management System thus allowing easy configuration and equally easy monitoring of the IPGW.

Interface port configurable 10/100/1000BaseT.

Technical Specifications

HPDL360 Gen8

E5649 CPU

Windows Server 2008

Need software release to be integrated with UEM Vision

Release 9.0.2.18 or higher in the HX System

Dimensions (IDU):	1U enclosure for 19" rack
Operating Temperature:	10° C to 35° C
Relative Humidity:	10% to 80% noncondensing
Power:	90 to 240 Volts AC
Agency Certification:	UL, FCC Part 15, and CE Mark RoHS-Compliant

For additional information, please visit www.hughes.com or contact us at globalsales@hughes.com.

11717 Exploration Lane
Germantown, MD 20876 USA

www.hughes.com