




Hyperchip Inc.

H40G Comparables

Draft – for discussion purposes only

Feature Compared (bold is best on feature)	Hyperchip H40G 	Juniper M120 	Cisco XR12004 
Chassis is Industry Standard?	Yes (Standard MicroTCA)	No (Proprietary)	No (Proprietary)
Power (Maximum)	340W	2150W	1680W
Chassis Volume (L)	4.1 L	152.8 L	69.8 L
Chassis Size All 445 mm in width	H = 44 mm D = 210 mm	H = 526 mm D = 653 mm	H = 222 mm D = 707 mm
Maximum Weight	7 Kg	105 Kg	47 Kg
Buffering Capacity	64G	60G	40G
Forwarding Capacity	100 Mpps	90 Mpps	100 Mpps
Typical Power 4 x 10G Ethernet	120W		
Redundant Power	Yes	Yes	Yes
Interface Module is Industry Standard?	Yes (Standard AMC)	No (Proprietary)	No (Proprietary)
Maximum Interface Speed Supportable	40G	10G	10G
Maximum Interface Speed Available	10G	10G	10G
Flexible 10G Slots for Interfaces	4	4	4
Dedicated 10G Uplinks	0	2	0

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The Juniper M120 support six 15-Mpps forwarding engines for a total of 90 Mpps, whereas the Hyperchip H40G and the Cisco XR12004 each use a single 100 Mpps Forwarding engine. The Juniper M120 and the Cisco XR1240 support four slot of 10 Gb/s each, and the Hyperchip H40G supports four AMC slots capable of up to 40 Gb/s each, although only 10Gb/s interfaces are currently commercially available. The Juniper M120 also has two cFPCs 10G uplinks, but does not have the packet processing capability to support these at line rate unless all interfaces are Ethernet.

Cisco XR 12004

http://www.cisco.com/en/US/docs/routers/xr12000/4_slot/installation/guide/todd.pdf

Juniper M120

<http://www.juniper.net/us/en/local/pdf/datasheets/1000042-en.pdf>

Hyperchip H40G

<http://www.hyperchip.com/H40G/DataSheet.pdf>