

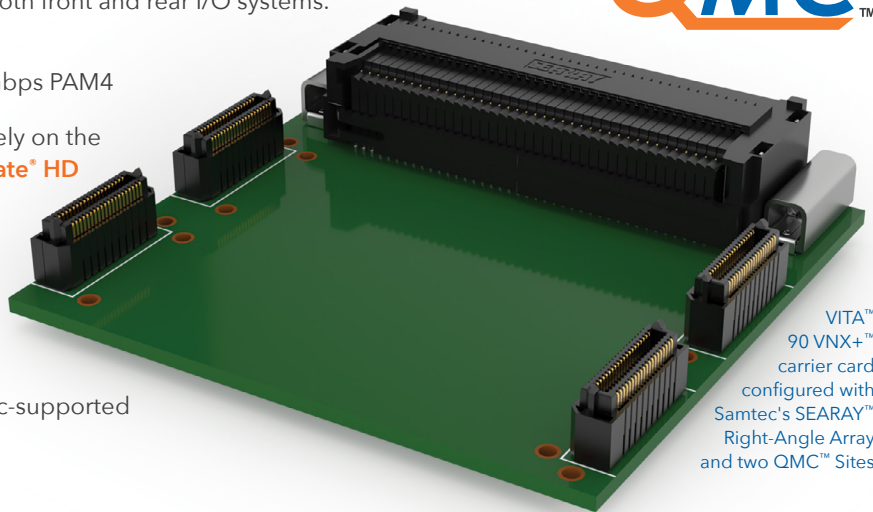


VITA™ 93 QMC™ STANDARD SMALL FORM FACTOR SOLUTIONS

The VITA™ 93 Standard defines a flexible, next generation mezzanine concept for small form factor modules. The modular, scalable design includes rugged and reliable mechanical features, and supports both air and conduction cooling for both front and rear I/O systems. Additional features include:




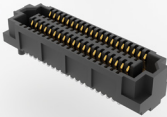
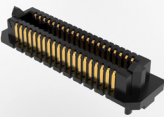



- Supports performance to 32 Gbps NRZ/64 Gbps PAM4
- 80-pin (4 x 20) QMC™ Standard connectors rely on the high-speed capabilities of Samtec's **AcceleRate® HD Ultra-Dense, Slim Body Arrays**
- Small form factor design is ideal for VNX+™ requirements, including those found in many commercial, industrial, space and military-grade rugged environments
- Learn more about VITA™ 93 and other Samtec-supported industry standards at samtec.com/standards



VITA™ 90 VNX+™ carrier card configured with Samtec's SEARAY™ Right-Angle Array and two QMC™ Sites

ACCELERATE® HD | VITA™ 93 QMC™ CONNECTORS

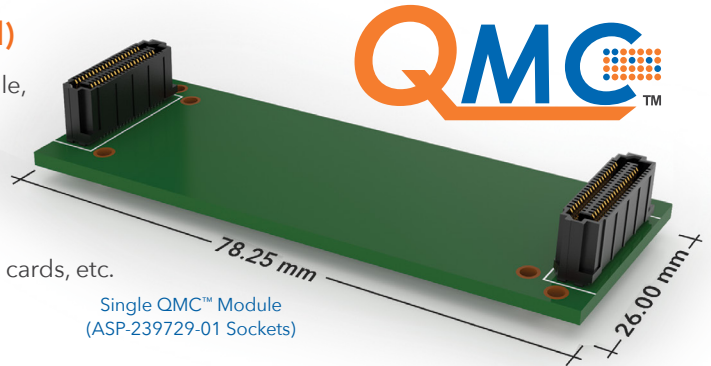
- QMC™ Standard connectors are based on **Samtec's AcceleRate® HD Ultra-Dense, Slim Body Arrays**
- The rugged **Edge Rate® Contact System** provides optimized signal integrity performance
- An open-pin-field design facilitates maximum grounding and routing flexibility
- 64 Gbps PAM4 (32 Gbps NRZ) performance and PCIe® 6.0/CXL® 3.2 capable
- For additional information, including a full part number list, prints and test reports, please visit samtec.com/QMC

VITA™ 93 QMC™ Connector	Sockets		Terminals					
								
Samtec P/N	ASP-239729-01	ASP-239148-XX	ASP-239730-01	ASP-239731-01	ASP-239732-01	ASP-239733-01		
VITA™ Standard	93.0	93.1	93.0	93.1	93.0	93.0	93.0	93.1
Placement	Module	Carrier	Carrier	Module	Carrier	Carrier	Carrier	Module
Mated Height	Standard	Standard	9 mm	5 mm	11 mm	14 mm	16 mm	12 mm

For additional information, please visit: samtec.com/QMC.

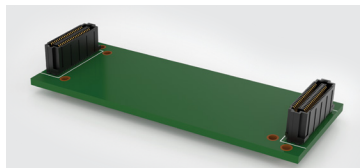
VITA™ 93.0 QMC™ (Quarter Size Mezzanine Card)

- VITA™ 93.0 defines four small form factor mezzanine cards (single, double, triple and quad) with a common length of 78.25 mm
- Four mated stack heights (9, 11, 14 and 16 mm) enable PCB space-optimization and design flexibility
- Supports a variety of carrier card form factors including 3U/6U Eurocards (VPX™, cPCI®, cPCIe®, VME), VNX+™, PCIe® expansion cards, etc.
- Suitable for VNX+™ small form factor requirements



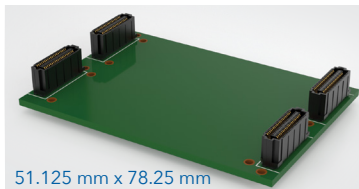
Single QMC™ Module
(ASP-239729-01 Sockets)

QMC™ Module Sizes



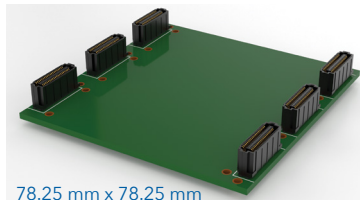
26.00 mm x 78.25 mm

Single QMC™ Mezzanine Module



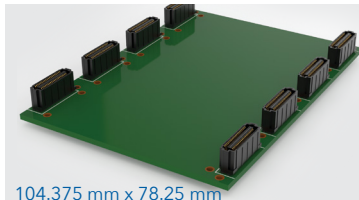
51.125 mm x 78.25 mm

Double QMC™ Mezzanine Module



78.25 mm x 78.25 mm

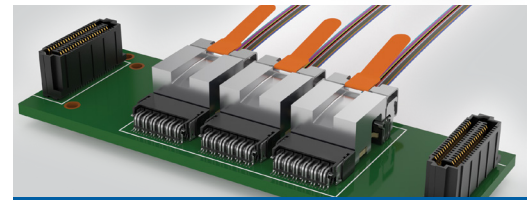
Triple QMC™ Mezzanine Module



104.375 mm x 78.25 mm

Quad QMC™ Mezzanine Module

QMC™ Module Applications



3 FireFly™ Optical Transceivers + QMC™ Site

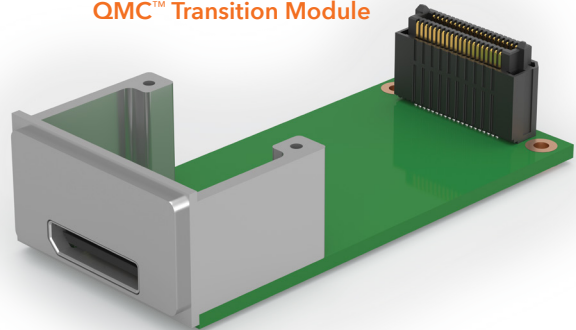


VITA™ 90 VNX+™ Solutions
(Rugged Optics, RF, SEARAY™ Connector + QMC™ Module)

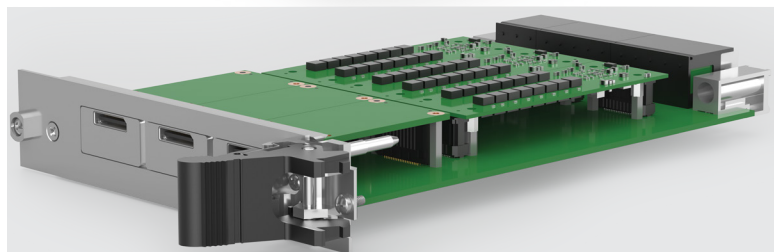
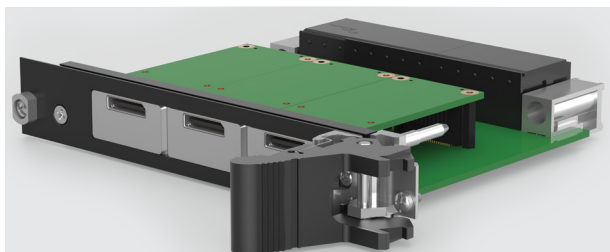
VITA™ 93.1 QTM (QMC™ Transition Module)

- VITA™ 93.1 defines two expansion mezzanine cards with front-panel I/O, known as QTMs (QMC™ Transition Modules)
- Two mated stack heights (5 and 12 mm)
- QTMs mount on a QTM carrier card or rear transition location, providing interchangeable, application-specific connector interfaces that route directly to the QMC™ I/O connector
- Supports a wide range of common commercial connectors (RJ45, SFP, OCuLink, D-Sub, USB, etc.) and carrier form factors

QMC™ Transition Module



Applications



Supports 3U/6U Eurocard, PC Expansion & SFF Carrier Cards (VPX™, CompactPCI-Serial®, PCIe®, PCIe®/104, VNX+™, Embedded PCs, etc.)