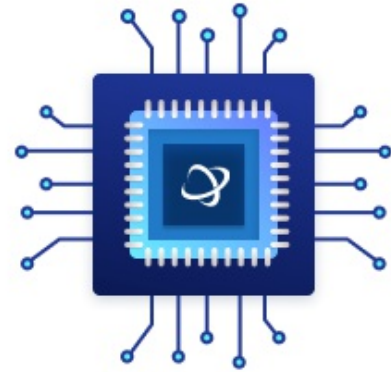


DIGI G4, W/ ENCRYPTION.

Manufacturers	Microchip Technology, Inc
Package/Case	
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PM5990B-FEI or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

DIGI-G4 is Microchip's fourth-generation OTN processing solution for next-generation OTN switching and packet-optical transport (POTP/P-OTN), WDM/ROADM, and hyperscale data center interconnect (DCI) equipment. Building on the innovations in Microchip's DIGI-120G, which is widely deployed in service provider and hyperscale data center WAN networks today, DIGI-G4 is a 4x100G multi-service OTN processor, scaling line card capacity by 4x, while reducing power per port by 50 percent, as compared to previous generation OTN processors. DIGI-G4 addresses the requirements of SDN-ready, encrypted optical transport infrastructure. Reusing Microchip's proven, service provider-qualified DIGI family OTN switching software development kit (SDK), DIGI-G4 can be leveraged across multiple applications and equipment platforms, providing OEMs with the lowest risk, fastest time-to-market and lowest cost of development.

Variants available with OTN encryption (PM5990) and without OTN encryption (PM5991).

Benefits for Service Providers & OEMs

- Lowers CAPEX & OPEX of service provider 100G deployments
 - High-capacity hybrid packet/OTN switching & aggregation maximizes 100G wavelength utilization
 - Universal line card solution simplifies line card inventory management
- Supports hyperscale data center interconnect transport requirements
 - Flexible, low latency, protocol agnostic Layer 1 OTN payload encryption
 - Flexible on-chip OTN switch & Interlaken interconnects enable design of compact, scalable, 'rack-and-stack' data center interconnect WAN transport platforms
- Supports transition to transport SDN-based network architectures
 - Flexible hybrid packet/OTN mapping, aggregation & switching enables virtualization of 100G optical infrastructure
 - Hitless, on-demand scaling of optical connections
 - Features to enable OpenFlow extensions such as network element neighbor discovery
- Accelerates time-to-market & lowers development costs for OEMs
 - High-performance, field-proven OTN-SDK built upon the DIGI family code base, allowing OEMs to reuse existing software investments
 - 'Application-centric' APIs reduce time-to-market by up to 6 months.
- Optimizes power, footprint and cost of line cards:
 - Integrated 100G gearbox for direct connect to CFP2, CFP4 and QSFP28 transceivers.
 - Connects directly to many off-the-shelf Network Processors & Switch Fabrics
 - Integrated PLLs & GCC processor reduces the need for auxiliary components

Features

High-density 400G single-chip line card solution for OTN switching on Packet Optical Transport Platforms (P-OTP)

Sub-wavelength Layer 1 OTN encryption solution to secure the cloud

25G granularity flexible OTN framer to DSP

High density 10G, 40G and 100G multi-service support, including Ethernet, storage, IP/MPLS and SONET/SDH

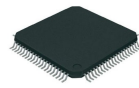
Transport SDN-ready features, enabling OpenFlow extensions such as network element neighbor discovery

Related Products



[PIC32MM0256GPM064-I/PT](#)

Microchip Technology, Inc
TQFP-64



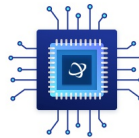
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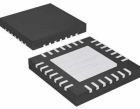
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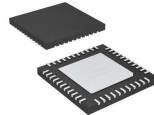
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