

Product Brief: VCoP OC-3/12 Smart SFP™ STS channelized SONET over Packet

Overview

VCoP OC-3/12 Smart SFP™ converts STS channelized OC-3 or OC-12 signal to packet streams using RFC4842 CEP TDM over Packet pseudowire technology.

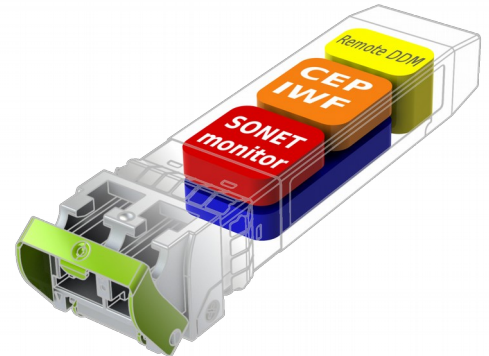
Designed in conformance with the Small Form Factor Pluggable 20-pin Multi-Source Agreement (MSA), the VCoP OC-3/12 Smart SFP™ can be inserted in a router or a switch and transport the STS payloads across a packet network.

VCoP Smart SFP™ enables each STS1-SPE, STS3c-SPE or STS12c-SPE to be processed individually to provide a high density Gateway between a SONET network and Ethernet or MPLS networks.

The integration of VCoP OC-3/12 into an SFP greatly reduces system and network complexity, offers lower carbon footprint, and brings CAPEX and OPEX savings.

VCoP OC-3/12 capabilities are complemented with a Gigabit Ethernet system interface. The Smart SFP supports multirate OC-3/OC-12 duplex fiber with 15 km reach. It is designed to operate at industrial temperature range.

Optionally, an API is available to facilitate tight integration in existing equipment. Alternatively, the Smart Device Manager application allows configuration and helps to monitor relevant parameters.



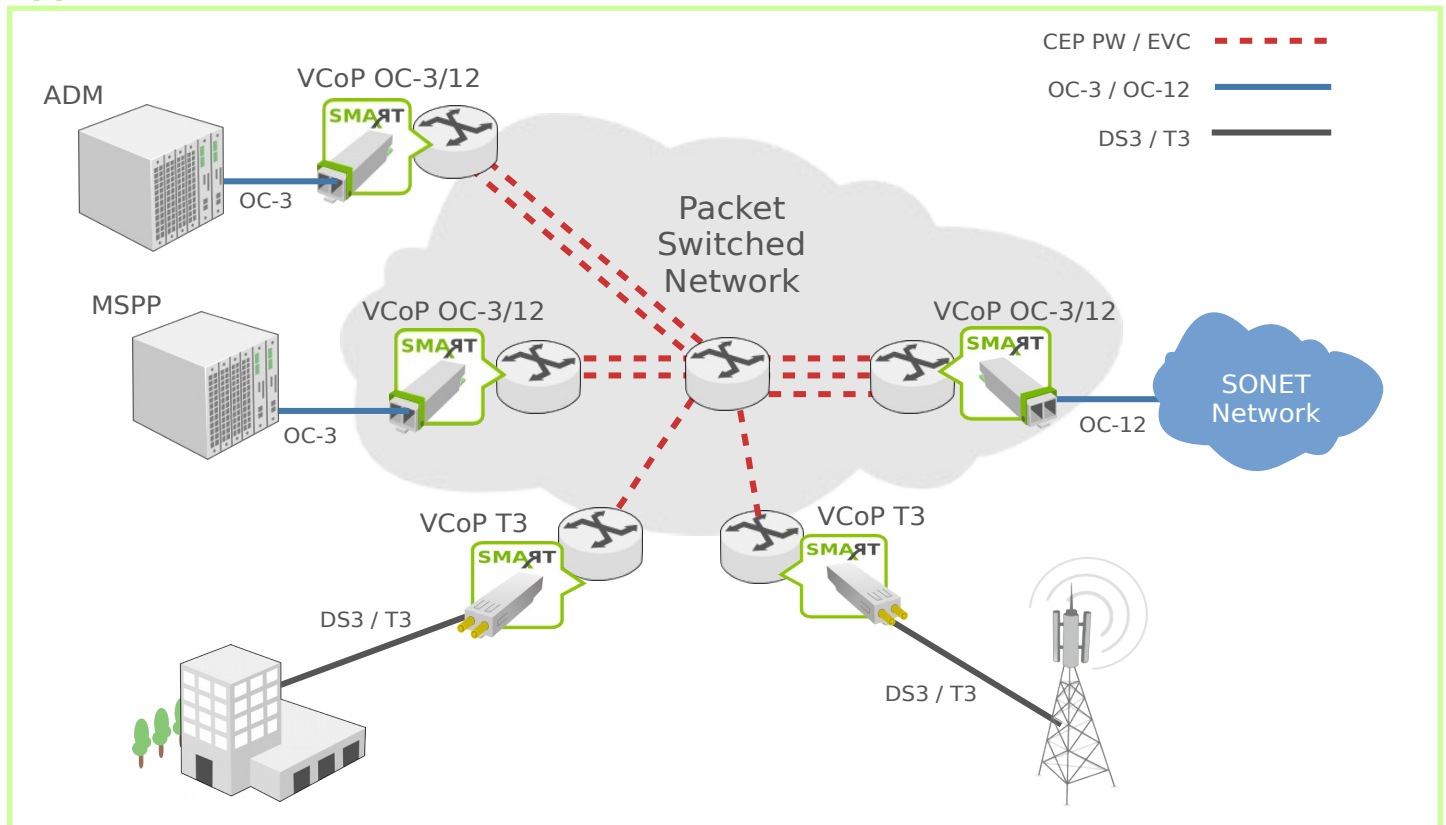
Application Highlights

- OC-3 or OC-12 TDM over Packet
- Enterprise/Business access
- Aggregate DS3 access to OC3/12

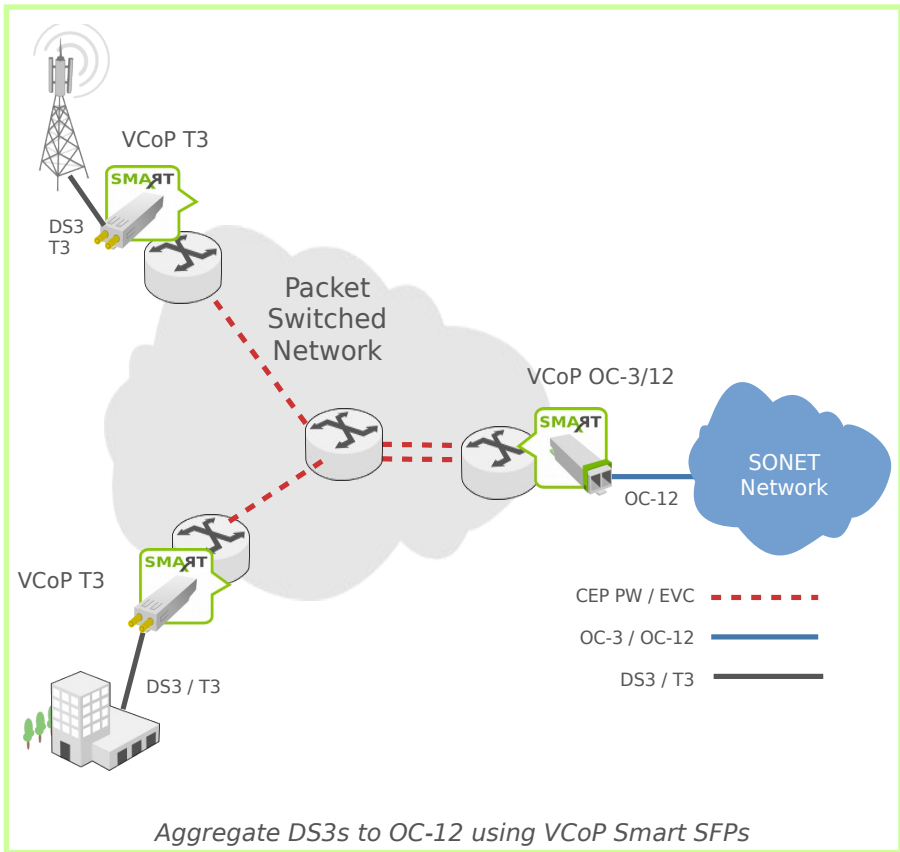
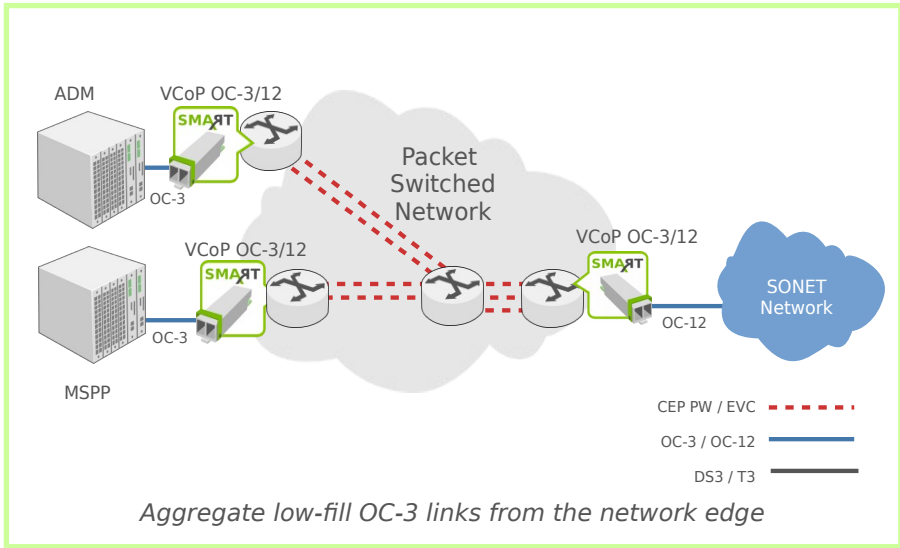
Benefits

- Eliminate SONET leased line costs
- Compact size
- Industrial temperature range
- Low Carbon footprint
- Total cost reduction

Applications



Aggregate DS3 and OC-N signals with VCoP Smart SFP™



Features

- SFP INF-8074 compliant¹
- DDM SFF-8472 compliant
- Remote access to Digital Diagnostics Monitoring
- SONET operation mode
- SDH operation mode²
- CEP (RFC4842) packetizer
- EPAR clock recovery, using SyncE as reference clock
- MEF8 and MPLS Frame header format, with optional VLAN tag
- STS1, STS3c and STS12c concatenation
- Packetization latency of 125 μ s
- Jitter buffer, depends on type:
 - VCoP: 8 ms OC-3, 4 ms OC-12
 - VCoP LJB: 16 ms OC-3 and OC-12
- Jitter and wander compliant to ITU-T G.8261, and GR-253
- Software API for management
- Field upgradable packet processor
- Interop with other CEP RFC4842 equipment, including VCoP T3 Smart SFP™

Interfaces

- Multirate OC-3 / OC-12 interface
- Optical reach 15 km
- LC duplex connector
- Compatible with SFP MSA
- 1000Base-X SerDes via MSA
- Available operating temperature range, depends on type:
 - VCoP: -40°C to 85°C (Industrial)
 - VCoP LJB: 0°C to 70°C (Standard)

Contact Information

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1 Exception: power consumption exceeds MSA limit
 2 Future release