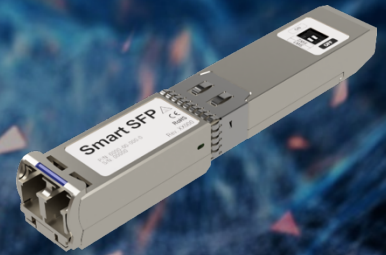# PlumSpace

Software Defined Smart SFP

Data Processing Unit (DPU)

Software Defined Smart SFP leverages the high performance ARM processor to deliver an intelligent network appliance for a wide range of industries including networking, telecommunications, monitoring, maintenance and security.

Smart SFP is optimized for Software Defined implementations by leveraging the direct connection of network interfaces to CPU, which allowing all network traffic to be managed by software for the highest levels of security and quality of service, enabling new service upgrades.

Support of Data Plane Development Kit (DPDK) greatly boosts packet processing performance and throughput to improve data plane performance.
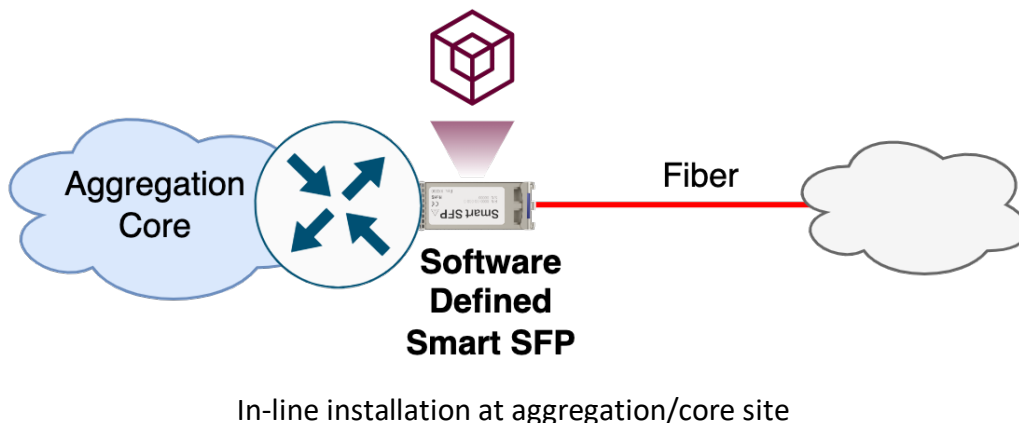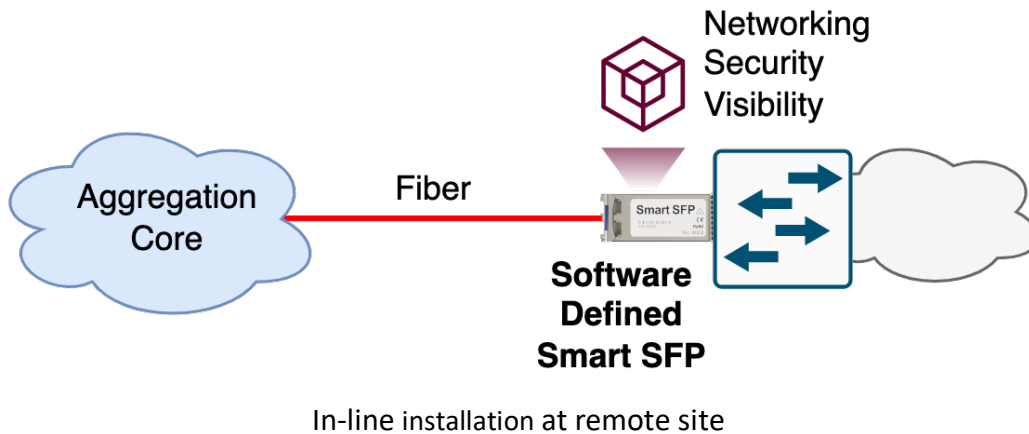
Smart SFP is designed for the low-cost and high-volume market. It's easily pluggable into SFP ports of switches and routers. It provides significant OpEx savings by eliminating additional power, space and cabling costs.
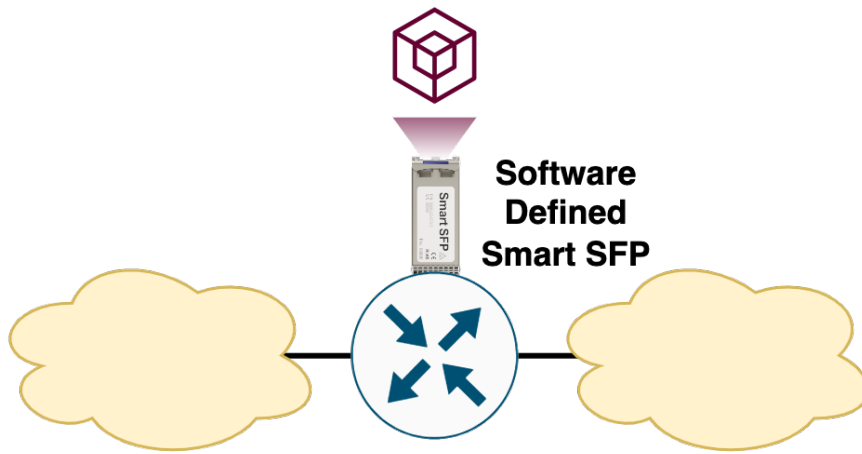
Applications:
- uCPE
- Router
- BGP route reflector
- VPN
- Firewall
- IPS / IDS, DPI
- IP SLA
- Overlay
- NetFlow agent
- Single Board Computer in SFP

Key features:
- 1 Gbps software only packet processing
- Linux networking stack
- DPDK
- XDP/eBPF

In-line installation at remote site

In-line installation at aggregation/core site

Software Defined Smart SFP

Out-of-line installation at any point in the network

Features:
- VLAN, Q-in-Q
- Routing (FRR, BIRD, GoBGP)
- VPN (IPSec, WireGuard, OpenVPN)
- MPLS
- VRF
- MACSec
- Tunneling (GRE, IPinIP)
- Overlay (VXLAN, GENEVE)
- VoIP (Asterisk)
- IP SLA (iPerf, twampy)
- Firewall (iptables, nftables, ebtables)

Software:
- Debian
- Linux kernel
- DPDK
- Marvell MVNETA PMD driver
- XDP/eBPF
- P4

Hardware:
- CPU: Marvell Armada 3720, ARMv8, 2 cores, 1 GHz
- RAM: DDR4 1 GB
- Flash: eMMC 4 GB

General:
- Digital Diagnostics Monitoring (DDM)
- Inline and out-of-line installation
- SFP MSA compliant
- Multi-vendor compatibility
- LED status indicator
- Industrial temperature

Ordering information
Intelligent SFP module, ARMv8 CPU, Gigabit Ethernet, DDM, 1310 nm, 20 km, 2xSMF, LC

Find out more: plumspace.com, info@plumspace.com   We are open for partnership