









## Data Center Switches Edge-Core

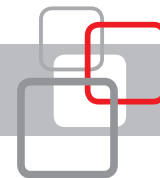
Jedná se o switche, optimalizované svým výkonem, napájením, chlazením a operačním systémem pro aplikaci v datových centrech. Patří sem také ONIE switche, které nemají operační systém - jedná se tedy o samostatný HW bez SW/FW. Standardizované rozhraní Open Network Install Environment (ONIE) umožňuje použít SW jiných výrobců.

## Data Center Bare metal switches 1G



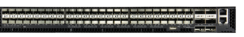

				
Typ	<b>AS4610-30T</b>	<b>AS4610-30P</b>	<b>AS4610-54T</b>	<b>AS4610-54P/54PE</b>
Main ports	30x 10/100/1000T	"30x 10/100/1000T with PoE+ (960W)"	48x 10/100/1000T	48x 10/100/1000T with PoE+ (1650W) or PoH up 90W/port (1800W)
Uplink	4x 1/10G SFP+ (opt 2x 40G QSFP+ or 16x 10G)	4x 1/10G SFP+ (opt 2x 40G QSFP+ or 16x 10G)	4x 1/10G SFP+ (opt 2x 40G QSFP+ or 16x 10G)	4x 1/10G SFP+ or 4x 25G SFP8
Features	L2/L3	L2/L3	L2/L3	L2/L3
Chipset	Broadcom Helix 4	Broadcom Helix 4	Broadcom Helix 4	Broadcom Helix 4 / Trident III
Operation System	ONIE, <b>Pica8</b> , Open Network Linux	ONIE, <b>Pica8</b> , Open Network Linux	ONIE, CGS, <b>IP Infusion</b> , Netscout, Ixia, <b>Pica8</b> , <b>Pluribus</b> , ONL	ONIE, <b>Pica8</b> , Open Network Linux, SONIC
Power Supply	2xAC/DC 48V Modular, Redundant	2xAC Modular, Redundant	2xAC/DC 48V Modular, Redundant	2xAC Modular, Redundant

## Data Center Bare metal switches 10/25/40G





				
Typ	<b>AS5812-54T/54X</b>	<b>AS5835-54T/54X</b>	<b>AS7312-54XS / AS7326-56X</b>	<b>AS6812-32X</b>
Main ports	48x 100/1000/10G T or 1G/10G SFP+	48x1000/10G T / 48x1G/10G SFP+	48x 25G SFP28	32x 40G QSFP+
Uplink	6x 40G QSFP+	6x 100G QSFP28	6x 100G QSFP28 or 8x 100G QSFP28, 2x 10G	QSFP+
Features	L2/L3	L2/L3, 6 MB Packet Buffer	L2/L3	L2/L3
Chipset	Broadcom Trident II 720Gbps	Broadcom Trident III 1.08 Tbps	Broadcom Tomahawk 1.8Tbps/ Trident III 1.08 Tbps	Broadcom Trident II+ 1.28Tbp
Operation System	ONIE, CGS, <b>IP Infusion</b> , Ixia, Netscout, <b>Pica8</b> , <b>Pluribus</b> , ONL	ONIE, SONIC, Open Network Linux, <b>IP Infusion</b> , <b>Pica8</b>	ONIE, ONL, OpenNSL, <b>Pica8</b> , Cumulus, OF-DPA	ONIE, <b>Pica8</b> , Open Network Linux
Power Supply	2x AC or DC 48V/12V Modular, Redundant	2x AC or DC 48V/12V Modular, Redundant	2x AC/DC 48V Modular, Redundant	2x AC or DC 48V/12V Modular, Redundant






## Data Center Bare metal aggregation switches and routers 10G

				
Typ	<b>AS5912-54X</b>	<b>AS5916-54XL (Edge Switch)</b>	<b>AS5916-54XM (10G/100G Aggregation Router)</b>	<b>AS5916-54XL (Edge Router)</b>
Main ports	48x 1G/10G SFP+	48x 1G/10G SFP+	48x 1G/10G SFP+	48x 1G/10G SFP+
Uplink	6x 100G QSFP28	6x 100G QSFP28	6x 100G QSFP28	6x 100G QSFP28
Features	L2/L3, 6MB Packet Buffer	L2/L3, 6MB Packet Buffer	L2/L3, 6MB Packet Buffer, MACSec	L2/L3, 6MB Packet Buffer, ext. TCAM 80Mb/512Mb capacity
Chipset	Broadcom Gumran MX 800Gbps	Broadcom Gumran MX 800Gbps	Broadcom Gumran MX 800Gbps	Broadcom Gumran MX 800Gbps
Operation System	ONIE, CGS, Exaware, Infinera, <b>IP Infusion</b> , ONL	ONIE, DriveNets, ONL, RtBrick	ONIE, Infinera, ONL	ONIE, <b>ADVA Ensemble Activator</b> , Cisco IOS XR, <b>IP Infusion</b> , Exaware, Infinera, Volta, ONL...
Power Supply	2x AC or DC 48V/12V Modular, Redundant	2x AC or DC 48V Modular, Redundant	2x AC or DC 48V Modular, Redundant	2x AC or DC 48V Modular, Redundant

## Data Center Bare metal switches 100/400G

				
Typ	<b>AS7712-32X / AS7726-32X</b>	<b>AS7816-64X</b>	<b>Wedge 100S-32X/BF-32QS/65X</b>	<b>AS9716-32D</b>
Main ports	32x100G QSFP28 (2x 10G SFP+)	64x 100G QSFP28	32x or 64x 100G QSFP28	32x 400G QSFP-DD
Uplink	QSFP28	QSFP28	QSFP28	QSFP-DD
Features	L2/L3	L2/L3	L2/L3, DCB, SDN	L2/L3
Chipset	Broadcom Tomahawk 3.2Tbps	Broadcom Tomahawk II 6.4Tbps	Barefoot Torino 3.2/3.2Tbps	Broadcom Tomahawk 3 12.8 Tbp
Operation System	ONIE, Arrcus, CapGemini, Ixia, CGS, Netscout, <b>IP Infusion</b> , <b>Pica8</b> , <b>Pluribus</b> , ONL	ONIE, <b>IP Infusion</b> , <b>Pica8</b> , <b>Pluribus</b> ( <b>Netvisor OS</b> ), ONL, Netscout, SONiC Linux, SONiC,	ONIE, ONL, Kaloom, Noviflow, SONiC	CGS, SONiC, Open Network Linux
Power Supply	2x AC Modular, Redundant or DC 48V	2x AC/DC 48V Modular, Redundant	2x AC/DC 48V Modular, Redundant	2x AC Modular, Redundant

## Operation Systems for Data Center Switches

		
<b>Pluribus (vhodné pro datová centra, ISP a Telco)</b>	<b>IP Infusion (vhodné pro datová centra, ISP a Telco)</b>	<b>Pica8 (vhodné pro Enterprise)</b>
<ul style="list-style-type: none"> <li>■ Pure Linux OS</li> <li>■ <b>Data Center features</b> (Controllerless SDN,...)</li> <li>■ CLI, full support of GUI via UNUM</li> <li>■ no MPLS, no Openflow</li> <li>■ L2 (Spanning Tree, LLDP, MLAG, VTEP, Q-in-Q, Dridge Domains,...)</li> <li>■ L3 (PIM, MPLS, BGP4+, VRRP, DHCP-relay,...)</li> <li>■ <b>Full Telemetry via Insight Analytics</b></li> </ul>	<ul style="list-style-type: none"> <li>■ Pure Linux OS / Debian Linux</li> <li>■ <b>Data Center features (TRILL, PFC, ETS, ..)</b></li> <li>■ CLI, no GUI</li> <li>■ <b>Full MPLS</b></li> <li>■ L2 (Spanning Tree, LLDP, MLAG, VTEP, Q-in-Q,...)</li> <li>■ L3 (PIM, MPLS, BGP4+, VRRP, DHCP-relay, IGMPv1/v2, IS-IS, OSPFv3, MBGP for IPv6)</li> <li>■ no OpenFlow</li> </ul>	<ul style="list-style-type: none"> <li>■ Pure Linux OS / Debian Linux</li> <li>■ Shell access</li> <li>■ CLI, Hybrid, SDN</li> <li>■ MPLS via OpenFlow</li> <li>■ L2 (Spanning Tree, LLDP, MLAG, VTEP, Q-in-Q,...)</li> <li>■ L3 (RIPv2, OSPFv2, ECMP, VRRP, DHCP-relay, IGMPv1/v2, BGP4+, OSPFv3, MBGP for IPv6)</li> <li>■ <b>OpenFlow 1.4</b></li> </ul>