

SWITCH SERIES COMPARISON

How do switches of the R&S®LANCOM SME- and Enterprise-class differ? Find the right series for your requirements:

	SME-class switches					Enterprise-class switches					
Portfolio focus	Price- and efficiency-oriented switches for simple networks					Performance- and feature-oriented switches for complex networks					
Firmware & operation	► Unified operating system (LCOS SX 4.x) ► Proprietary CLI and GUI ► Centralized rollout as well as 24/7 management, monitoring, and alerting via R&S®LMC					► Unified operating system (LCOS SX 5.x) ► Industry-standard CLI, GUI, and ports without proprietary interfaces for a low total cost of ownership (TCO) ► Centralized rollout as well as 24/7 management, monitoring, and alerting via R&S®LMC					
Switching & routing	Layer 2 and Layer 3 Lite functionality (DHCP and static routing)					Full Layer 3 functionality (including OSPF and BGP)					
Redundancy & high availability	► No stacking functionality ► Generally no power supply or fan redundancy (except XS-3550YUP and GS-3652XUP)					► Redundancy and virtualization features such as VRRP, stacking, Virtual Port Channel (VPC), and In Service Software Updates (ISSU) for up to 100% network uptime (on selected models) ► Redundant power supply units (PSUs) and fans (hot-swappable) for increased resilience (except XS-5110F)					
Security / access control	IEEE 802.1X, standard features					IEEE 802.1X, RADIUS-assigned ACLs					
Warranty	5-year replacement service including security updates regardless of lifecycle status					Limited Lifetime Warranty (LLW) , including security updates until End of Life or for a maximum of 10 years, plus Dead on Arrival Policy					
Access switch series	GS-2000, IGS-3000, GS-3000, and XS-3000					GS-4000 and XS-4000					
Aggregation switch series	–					XS-5000, XS-6000, and YS-7000					
Core switch series	–					CS-8000					
	GS-1000	GS-2000	IGS-3000	GS-3000	XS-3000	GS-4000	XS-4000	XS-5000	XS-6000	YS-7000	CS-8000
Short series description	1G unmanaged switches as a plug-and-play solution	1G SME-class access switches (Layer 2)	2.5G industrial-class access switches (Layer 3 Lite)	2.5G SME-class access switches (Layer 3 Lite)	10G SME-class access switches with PoE++ (Layer 3 Lite)	2.5G stackable Enterprise-class access switches (Full Layer 3)	10G stackable Enterprise-class access switches with PoE++ (Full Layer 3)	10G aggregation switches with high uplink and stacking capacity	10G aggregation switch with high uplink, stacking, and VPC capacity	25G aggregation switch w/ enormous high uplink, stacking, and VPC capacity	100G core switch
Use case	Small, simple networks without extensive management	Small to medium-sized, cost-efficient office networks for connecting end devices and access points	Industrial environments with increased requirements for robustness and temperature resistance	High-performance floor distribution and network segmentation for robust Wi-Fi connectivity, e.g. Wi-Fi 6	Data-intensive networks and connectivity for high-performance PoE end devices, e.g. Wi-Fi 7	Scalable campus and public-sector networks with high requirements for availability and network segmentation		Distribution layer for connecting downstream access switches in medium-sized, distributed networks	Collapsed core in two-tier networks or high-performance distribution switches in three-tier architectures for large, highly available campus networks		Central node in resilient campus and data center networks and for connecting high-performance server infrastructure
Layer	2	2	3 Lite	3 Lite	3 Lite	3	3	3	3	3	3
Downlink	1G	1G	1G / 2.5G	1G / 2.5G	1G / 10G	1G / 2.5G	2.5G / 10G	10G	10G	25G	100G
Uplink	1G	1G	10G	10G	25G	10G & 40G	25G & 100G	40G	25G / 40G & 50G	100G	100G
Stacking VPC	– –	– –	– –	– –	– –	✓ –	✓ ✓	✓ –	✓ ✓	✓ ✓	– ✓
Special features	No configuration required	Variants without PoE and with PoE+	Direct DIN rail mounting for IGS-3510XUP	Variants without PoE, with PoE+, and with PoE++	PoE++ (90 W) on the 10G ports	Variants without PoE, with PoE+, and with PoE++	PoE++ (90 W) on all downlink ports	2x 10G copper port support each	Flexible configuration options of the Flex ports	Selectable airflow design (F2B or B2F)	Selectable airflow design (F2B or B2F)

