

## **LCOS LX** 5.10

For top Wi-Fi & security

LCOS LX 5.10 is the operating system for access points of the LX and LW series. With the latest wireless LAN standard Wi-Fi 6 and the encryption via WPA3 this new LCOS LX version steers your wireless network into the future—straight and safely. Management and monitoring takes place alternatively with the highly convenient and intuitive web interface, our LANtools, or the LANCOM Management Cloud.

- > Support for Wi-Fi 6 according to IEEE 802.11ax
- > SNMPv3 with LANmonitor
- > Auto Updater for automatic firmware updates
- > Band steering for full bandwidth through intelligent client steering
- > Fast roaming
- > WPA3 encryption



## LC:DSLX LANCOM Operating System

General function over		
Wireless LAN	Wi-Fi access point	Up to 511 Wi-Fi clients
	Frequency band	2400-2483.5 MHz and 5150-5700 MHz (country-specific restrictions may occur)
	Wi-Fi standards	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11h, IEEE 802.11i, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax
	Radio channels	Up to 13 channels at 2.4 GHz, up to 16 channels at 5 GHz (subband 1 and subband 2), automatic channel selection available for both frequency bands. DFS (Dynamic Frequency Selection) available at 5 GHz.
	Roaming	Switching between radio cells (seamless handover), support for IAPP (compatible to LCOS), Fast roaming as per IEEE 802.11r
	Band steering	optimized load balancing by steering Wi-Fi clients to the best available frequency band (IEEE 802.11v).
	VLAN	Static VLAN assignment as per 802.1p/q based on Wi-Fi SSIDs
	Multi SSID	Up to 32 (simultaneous use of up to 16 independent Wi-Fi networks at WLAN interface 1 and up to 16 independent Wi-Fi networks at WLAN interface 2)
	Closed network	Broadcast suppression for SSID name
	Security	WPA3, 802.11i (WPA2), WPA1/TKIP, WEP, 802.1X (RADIUS authentication) including PMK caching
	QoS	WMM
	Adaptive Noise Immunity	Masking of noise sources in the radio environment
	Environment scan	Display of adjacent Wi-Fi networks and channel allocation (available via WEBconfig)
Management protocols	HTTP / HTTPS	exclusively for accessing WEBconfig
	TFTP	exclusively for searching devices in LANconfig
	SSH	
	SNMP	read-only access
Management	LANCOM Management Cloud	Complete management via the LANCOM Management Cloud incl. the ability for Zero-Touch installation
	WEBconfig	Intuitive web interface for the entire management and monitoring of devices in stand-alone operation
	LANconfig	Complete configuration via LANconfig; configuration backup; firmware upload; configuration upload and -download
Diagnostics	Comprehensive trace options per command line interface, historical trace data retrievable from the internal system log buffer. Retrieval of the device-internal syslog via WEBconfig.	



## LCJSLX LANCOM Operating System

Features as of LCOS LX 5.10	
Wi-Fi 6 for LANCOM access points of the LX series	Wi-Fi is everywhere these days—the number of users is increasing just as rapidly as the potential applications. Wi-Fi 6 provides not only more speed, but above all a real increase in average throughput per Wi-Fi client. Thanks to a more efficient use of the available bandwidths and channels, Wi-Fi 6 brings more stability and reliability to intensively used wireless LANs.
Wi-Fi security standard WPA3	WPA3, the successor to WPA2, offers important enhancements and security features for small ("WPA3-Personal") and large networks ("WPA3-Enterprise"). You benefit from significant improvements in authentication and encryption in your wireless LAN.
SNMPv3 with LANmonitor support	SNMPv3 (Simple Network Management Protocol Version 3) provides professional network monitoring. It offers convenient and yet high-security device monitoring thanks to encrypted data communication in LANmonitor.
Auto Updater – always up-to-date	The Auto Updater automatically keeps your installations up-to-date: LCOS LX-based devices can search for new software updates, and download and install them without any user interaction. You can choose whether to install only security updates, release updates, or all updates automatically. If automatic updates are not desired, the feature can still be used to check for new updates, which can then be installed with a single click.
Band steering — full bandwidth through intelligent client steering	Band steering offers optimized load balancing across the Wi-Fi by actively redirecting clients to the less congested and higher performance 5-GHz frequency band. Depending on the capabilities of the Wi-Fi client, the access point steers it to the best available frequency band—almost seamlessly thanks to the modern IEEE 802.11v technology.
Fast Wi-Fi roaming	Fast roaming as per the WLAN standard IEEE 802.11r allows clients to roam quickly between access points for an optimal wireless LAN user experience.
Features as of LCOS LX 4.00	
Future-proof Wi-Fi performance	More and more users, a high density of devices, and mobile applications constantly present wireless infrastructures with new challenges. Low bandwidth and long loading times are often the result. LCOS LX 4.0 enables high-performance Wi-Fi and is also prepared to support future wireless LAN standards. This way users enjoy wireless freedom combined with the speed of wired networks - for a unique Wi-Fi experience.
Secure access control to the wireless network (IEEE 802.1X)	With integrated security functions such as IEEE 802.1X, LANCOM devices based on the LCOS LX 4.0 ensure optimum security in networks. Thus both administrators and employees benefit from professional security policies in the network.
Multi-SSID	Thanks to Multi-SSID, LCOS LX 4.0-based WLAN access points can set up to 32 different wireless networks in parallel and securely separated from each other. Individual bandwidth limits can be defined for each SSID for download and upload.
Modern web interface	Devices based on LCOS LX 4.0 can be set up in just a few moments via the intuitive web interface of the new WEBconfig. It offers the best overview for comprehensive management and monitoring. A modern dashboard clearly displays the current Wi-Fi status and enables easy setup of individual WLAN networks (SSID) and the associated network keys. Or simply integrate new clients by using convenient QR codes.
Support of the LANCOM Management Cloud	The LANCOM Management Cloud is the world's first hyper-integrated management system that intelligently organizes, optimizes, and controls your entire network architecture. State-of-the-art "software-defined technology" dramatically simplifies the deployment of an integrated network, eliminating the need for manual device configuration.