

Link Series Unified Access Control System

Link1000ACS



The Link1000ACS is a 2 port Gigabit Managed wired/wireless access control system



Front

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Overview

The LINK1000ACS is an Intelligent LAN/WLAN system of feature-rich and content delivery-focused tools. Engineered as a cost-effective top-of-rack system for any small to medium environment, it's designed to create efficiency. The smart technology samples and monitors data, adjusts its many features from TSPEC to QoS to ensure proper packet processing, and balances performance across both wired/wireless LANs as well as various segments. The system objective is to increase content delivery for smaller environments trying to handle Bring Your Own Device (BYOD) issues as well as reducing contention, and enabling more users to a better experience.

Solution Highlights

Capable of managing from 1 to 128 ICX and ARC Series access points from a single location, the Link1000ACS is designed for maximum flexibility and can be deployed as an on-premise, remotely managed, or part of a Cloud hosted ecosystem.

Unlike conventional LAN/WLAN systems that are costly, complex and cumbersome to deploy, Link1000ACS is ideal for any data network, but deploys sFlow, end-to-end Voice support, and backend Radius support to ensure even smaller networks can handle today's complex content demands. The Link1000ACS deploys data tracking, integrated Wireless Intrusion Detection System, and advanced Switching technology because it's no longer just about connecting but content.

The Link1000ACS integrates the ICC icXchange[®] application engine even for smaller deployments, and deliver advanced integrated features such as Radius and AAA authentication, application and device policy control, multi-level segmentation for extended security, and dynamic RF management.

The Link1000ACS uses standards-based technology to easily integrate with third party networks, security and authentication infrastructure already in place. Featuring a variety of management interfaces including Web GUI via HTTP/HTTPS, SNMP v1/v2/v3, CLI via telnet and SSH, the system seamlessly integrates with any IP data network.

Freedom to perform

The Link ACS architecture has three main sections: Wired/Wireless, Software consolidation (switching/wireless), and Management. The wired/wireless unified nature of the solution allows control over both sides of the network using features including Load Balancing, advanced QoS, and Authentication among others. Software consolidation enables advanced content controls beyond WMM and ToS, TSPEC provides tools to reduce contention. Management features ensure the whole network is controlled from one interface without an NMS program which drives cost down.

Enterprise features also drive performance in these access controller systems. The Link1000ACS has two Ethernet ports while the Link2000ACS is a 24-port Gigabit control system enabling all your network requirements to be met by only a devices.

The software-driven intelligence engine further uses advanced options such as PVLAN, Fast Roaming, IPv6 Forwarding, IGMP, WMM, Priority Mapping, and other packet control technologies to maximize data throughput. Link ACS software is designed to increase efficiency and secure user access, while maintaining a dedicated performance-focused fast path.



Link 1000ACS



Link 2000ACS

The icXchange® intelligence engine ensures wireless mobility as well as the wired performance and efficiency of the ICC Link ACS solutions. As device, content, and user requirements dynamically expand, the system is able to meet the challenge without costly upgrades.

Easy to Deploy

The Web GUI configures the system in 10 minutes. Link ACS' intelligent APs auto-discover and are centrally managed with automatic real-time optimization.

Distributed Architecture

icXchange® engine maximizes data throughput using multiple routes between APs and wired network.

Advanced Features and Functions

Role-based user policies, WLAN groupings, internal authentication database, rogue AP detection and client thresholds per AP.

Enterprise Features

Advanced Service



Technical Specifications: Link1000ACS

Dimension

328mm x 170mm x 42.2mm
12.9in x 6.6in x 1.66in

Ethernet ports

2 ports, auto MDX, auto-sensing
10/100/1000 Mbps, RJ-45

Management port

1 console port(RJ-45)

Power

100 – 240V AC Universal, IEC 320
connector

Power consumption

11W

Operating temperature

32°F (0°C) – 122°F (50°C)
-40°F (-40°C) — 158°F (+70°C)

Operating humidity

5% ~90% non-condensing

Standard features

Default Managed APs
16

Upgradable AP step

16

Max. managed APs

128

Max. controller clustering

64

Concurrent stations

5K

VLAN

4K

ACL

4K

MAC address table

32K

ARP table

8K

Roaming

Less than 30ms

IEEE standards and protocols

802.3 (10Base-T)
802.3u (100Base-TX)
802.3z (1000Base-X)
802.3ab (1000Base-T)
802.1Q (VLAN)
802.1p (COS)

802.3x (Flow Control)

GVRP

Broadcast storm control

Routing

RIPv1/v2, OSPF, VRRP, IGMP v1/v2/v3
ARP, ARP Proxy, PBR
PIM-SM, PIM-DM, PIM-SSM
802.11
802.11a
802.11b
802.11g
802.11n
802.11d
802.11h
802.11i
802.11e
802.11k

AP Discovery & Control

Layer-2 or Layer-3
AP discovers ACS automatically
AP download firmware from ACS
AP download configuration from ACS
automatically

Roaming

Roaming within ACS
Roaming between ACSs
Key Cache roaming

IP multicasting

MLD Snooping
IGMP Snooping

IPv6

DHCPv6, DNSv6, ICMPv6, ACLv6, TCP/UDP
for IPv6, SNMP v6, Ping /Trace, Route v6,
RADIUS, Telnet/ SSH v6, NTP v6, IPv6 MIB
support for SNMP, VRRP for IPv6, IPv6
QoS, Static Routing, OSPFv3, IPV6 Security
RA

Data forwarding

Distributed forwarding architecture
(CAPWAP)
Centralized architecture (CAPWAP)

Authentication

MAC Filtering
802.1x Authentication (EAP-TLS, EAP-
TTLS, EAP-PEAP, EAP-MD5)
Captive Portal
AAA
RADIUS Client
LDAP
Local Authentication (5000 user entries)
Accounting server

802.11 security

BSSIDs (Up to 32 for dual band AP, 16 for

single band AP)

802.11i (802.1x Authentication and PSK
Authentication)
Hidden SSID
WEP (WEP64/WEP128), WPA,
WPA2, TKIP, AES

WIDS

Rogue AP detection
Rogue DHCP Server detection
DoS attack prevention
DDoS
Password guessing protection
Rate limiting

Access Lists (ACLs)

Layer-2 (MAC address based
ACL) Layer-3 (IP address based
ACL)

Load balance

Load balance based on sessions/flows
Load balance based on throughput

RF management

Supports country code settings
Supports RF power adjust
automatically/manually
Supports RF channel adjust
automatically/manually

Multi-Media & QoS

WMM (802.11e)
Class-of-Service: voice, video, best
effort and background

Redundancy

1+1, N+1, N+N

Management

Web user Interface
SNMP
CLI (Telnet,
SSH) HTTP/
HTTPs FTP/
TFTP
SNTP
v4
NTP v4

Reliability

ULSM
MRPP

EMI & Safety

FCC
CE
TUV



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Link1000ACS: 2 Port Gigabit Layer 3 Unified Switch/WLAN Access Control System

Link2000ACS: 24 Port Gigabit Layer 3 Unified Switch/WLAN Access Control
System w/4 Combo SFP ports and 4 10G uplink module