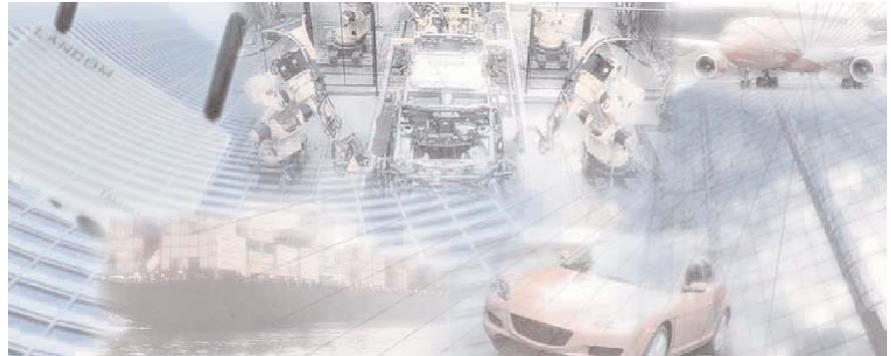


# WS/IAP-54

## Internal Access Point



### Industrial Wireless LAN Access Point

- Robust metal housing
- Stable wall- mast- or railmount option
- Power feeding via Power over Ethernet
- 1 Port PoE Power Injector included
- Wireless LAN with IEEE 802.11b/g and IEEE 802.11a
- Wireless transfer rate up to 108 mbps
- Maximum of security by 802.11i

#### Robust.

LANCOM Systems developed a robust and stable access point for the use in warehouses, production halls and other sophisticated and challenging locations. The LANCOM IAP-54 is protected by a metal housing, which is IP50 dust proof. Three mounting possibilities such as mast-, wall- and rail mount accessories are included. This makes the access point applicable also in difficult situations.

#### Professional.

LANCOM IAP-54 Wireless is equipped with all professional features needed to establish a stable and secure wireless LAN infrastructure. Wireless LAN 802.11b/g and 802.11a are integrated. Depending on the surrounding, either 2,4GHz or 5GHz radio band can be used. In both frequencies full speed transfer rates up to 108mbps are possible. By DFS and TPC in 802.11a (5GHz) 30dBm output power are allowed which increases the operating range considerably.

Power feeding by Power over Ethernet is by default integrated. The access point can be mounted up to 100m away from power points, supported by the included 1 port PoE Power Injector. Of course the IEEE 802.3af standard is fully supported.

#### Secure.

LANCOM Wireless LAN access points support the security standard IEEE 802.11i. Also Point-to-Point connection can be protected without any loss of performance against any kind of attack. Many more security protocols are included: 802.1x, WPA2, WEP, ACL, LEPS. Other flexible and professional features are available to meet in a cost-effective and quick way challenging and complicated requirements: e.g.: VLAN, MultiSSID, RADIUS etc. . Multiple configuration of several access points simultaneously and their management and supervision are perfectly solved by LANCOM LANtools.

LANCOM Systems additionally offers a vast variety of AirLancer wireless client adapters and Extender antennas.

# Wireless & Security

## IAP-54 SPECIFICATIONS

<b>Frequency range</b>	2400 - 2483.5 MHz (ISM) or 5150 - 5750 MHz	
<b>Standards</b>	IEEE 802.11g / IEEE 802.11b IEEE 802.11a: fully compliant to ETSI requirements using TPC and DFS.	
<b>Transfer rates *</b>	Up to 108 Mbps after IEEE 802.11a (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, automatic rate selection), or up to 108 Mbps after IEEE 802.11g (fallback to 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps, Automatic Rate Selection) compatible to IEEE 802.11b, 802.11 b/g compatibility mode or pure g or pure b selectable, Super A/G	
<b>Transmission range *</b>	Up to 150 m (up to 30 m indoor)	
<b>Transmission power</b>	Up to 19 dBm at 2.4 GHz, up to 18 dBm at 5 GHz	
<b>Radio Channels</b>	Up to 19 non overlapping channels (5 Ghz range), or up to 14 channels (2.4 GHz range), while 3 of them are non overlapping	
<b>Roaming</b>	seamless handover, IAPP support, IEEE 802.11d support	
<b>Multi SSID</b>	parallel 8 independent WLAN networks	
<b>Operating Modes</b>	WLAN access point	up to 255 clients
	WLAN bridge	Point to multipoint networking of up to 7 Ethernet LANs (mixed operation possible), broken link detection, blind mode, up to 32 VLAN connections for WLAN
	WAN router	Use of the LAN connector for simultaneous DSL-over-LAN, IP router, NAT/reverse NAT (IP masquerading) DHCP server, DHCP client, DHCP- relay server, DNS server, PPPoE client, PPTP-Client and -Server, NetBIOS-Proxy, DynDNS client, NTP, port mapping
	WLAN client	Transparent WLAN client mode for connecting printers or PCs by Ethernet
<b>Security</b>	WLAN	IEEE 802.11i / WPA2 with passphrase or 802.1x and hardware encrypted AES, LEPS (LANCOM Enhanced Passphrase Security), Closed network, WEP64, WEP128, WEP152, access control list, RADIUS client, user authentication, 802.1x / EAP
	Router, LAN	Stateful inspection firewall, IP masquerading, (NAT/PAT), inverse masquerading, packet filtering, login rejection, URL- blocking, denial of service protection, intrusion detection, QoS with VLAN priority for VoIP and VoWLAN Policy-based routing based on routing tags, tagging with firewall rules, dynamic routing with RIPv2
<b>Management</b>	LANtools (professional management software for Windows) incl. group configuration and WLANmonitor, WEBconfig (HTTP / HTTPS), Telnet, Telnet/SSL, SSH, TFTP, SNMP (MIB II, 802.11, 802.1D, 802.3, Private MIB), RADIUS, Syslog, CRON service (scheduled events), individual access control for up to 16 administrators, TFTP Client and Server with variable file names (name, MAC/IP address, serial number), scripting function for batch programming of all command line parameters and for transfer of configuration files over different software versions and devices incl. test mode for changing of different parameters	
<b>Connectors</b>	LAN Configuration	10/100Base-TX, Autosensing Serial V.24/RS-232 outband interface with Mini-DIN8, optional for analog, GPRS modem backup
	Power feeding	via power over Ethernet after IEEE 802.3af
<b>Antenna connectors</b>	Two 3 dBi dipol dual band antennas (included). Two reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas of other vendors. Please respect the restrictions given in your country when setting up an antenna system. For help with calculating the correct antenna setup, please refer to <a href="http://www.lancom.de">www.lancom.de</a>	
<b>Housing</b>	225 mm x 145 mm x 45 mm (B x W x T), robust metal housing, prepared for wall-, mast- and rail mounting, IP50 dust proof	
<b>Conformity</b>	CE conformity after EN 300 328, EN 301 893, EN 55022, EN 55011, EN 50081	
<b>Certifications</b>	Notified in Germany, Belgium, Switzerland, Netherlands, Luxemburg, Austria, United Kingdom, Italy, Malta, Czech Republic	
<b>Environment / temperature</b>	0 °C until +50 °C at 95 % max. humidity (non condensing)	
<b>Extend of supply</b>	LAN cable (CAT.5, STP, 3 m), 1 port PoE Power Injector, Material for wall-, mast- and 35 mm rail mount, printed manual (German, English), software CD	
<b>Service</b>	Warranty	3 years, PoE Power Injector: 2 years
	Support	Via hotline and Internet

\*) The effective distance and transmission rate that can be achieved are depending of the given building conditions.