ALE DeskPhones Enterprise range

The ALE DeskPhones Enterprise range is the next-generation of innovative business phones with a sleek industrial design. Built for every work style and workplace they support vertical industry requirements in enterprise environments.

The modular design enabled by the hardware and software customisation capabilities offers a variety of configurations to satisfy all worker generation business communications requirements from touchscreen to physical soft keys, as well as dial-pad.

The ALE DeskPhones Enterprise range is robust, future-proof, energy efficient, and durable. They are based on a state-of-the-art hardware and software platform with rich connectivity options (including Dual Port Gigabit Ethernet, Wi-Fi, Bluetooth®, Dual USB-C, and NFC) to be used in any communications infrastructure, wired or wireless, from on premises to cloud deployment, and are retro-compatible with customer installations.

ALE-500 DeskPhone

They can be securely deployed at the office, at home, in flex offices, in huddle rooms and in dedicated verticals environment such as hospitality, health care, finance or education. They offer smart power consumption management based on dynamic power class management, dynamic USB power allocation, presence detection and ambient light sensors.

A control smart pad provides an evolved user experience. A wide variety of options are available for professional end users including; corded handsets, cordless handsets, or no handsets, a wired or wireless headset option, a touch or key expansion module, as well as a physical or virtual alphabetic keyboard.

The ALE DeskPhones Enterprise range is designed for 3D Symphonic HD Audio quality to complement workers' computers and mobile phones with the AudioHub feature. 3D Symphonic HD Audio quality is based on a multi-microphone, bass reflex system with passive radiator for clear natural voice, and full-duplex audio for simultaneous conversation.

They provide an all-in-one product line, offering business phone, speaker phone, and conference phone capabilities, thus minimizing the number of devices in the enterprise space.

Features	Benefits
ALE business communications	Access all ALE communications platforms' rich and innovative services.
Modular design	BYOD: Build Your Own DeskPhone with the customisation kit, and options such as the alphabetic keyboard, with or without handset (corded or cordless), wireless and expansion modules.
Capacitive smart pad	Command and control your phone through a central smart pad: Navigate quickly through menus, easily adjust screen brightness and contrast, and easily manage the in/out audio.
3D Symphonic HD audio	Enjoy super-wideband audio with handset, or headset and hands-free, for an immersive conversational experience
Portrait touch colour screen	Benefit from an easy-to-read portrait touchscreen for an intuitive experience.
AudioHub(1)	Plug a headset or PC into the DeskPhone using the USB connector, pair your smartphone through Bluetooth, and leverage the DeskPhone 3D Symphonic HD audio.
Smart power consumption management	Save energy using presence detection, ambient light sensor, and dynamic power class management.
Zero-touch deployment on ALE solutions	Save time when deploying and operating the phones in different configuration, for Alcatel-Lucent OXO Connect, Alcatel-Lucent OXO Connect Evolution, Alcatel-Lucent OmniPCX® Enterprise. VPN Client configuration with EDS Server

		ALE-300	ALE-400 / ALE-400 BT	ALE-500 w/o handset	ALE-500 / ALE-500 BT
	Key highlights	Colour screen, 2x5 keys, super-wideband, corded handset	4.3" touch screen, corded or cordless handset	5.5" touch screen, integrated Bluetooth and WLAN, 2x6 virtual keys	5.5" touch screen, corded or cordless handset, 2x6 virtual keys
Screen	Size	3.5"	4.3"	5.5" vertical	5.5" vertical
	Touch screen		•	•	•
	Color display	•	•	•	•
Connectivity	2 RJ-45 Gigabit ports (LAN/PC)	•	•	•	•
	RJ-9 port for handset	•	•	•	•
	2 USB-C ports	•	•	•	•
	NFC	•	•	•	•
ALE	Contextual keys	2x5	2x5	2x5	2x5
Communications	Programmable keys	3	3	5	5
	Virtual keys add-on			2x6	2x6
Audio	Super-wideband handset	•	•	•	•
	Full-duplex, super-wideband speakerphone	•	•	•	•
	Voice Activity Detection (VAD)	•	•	•	•
	Comfort Noise Generation (CNG)	•	•	•	•
	Microphones	1	3	3	3
Accessories	ALE-100 Alphabetic keyboard	o	o	o	o
	ALE-108 WLAN[1], BT module	o	o / •	•	o / •
	ALE-110 Wall mounting kit	o	o	o	o
	ALE-120 keys expansion modules	o	o	o	o
	ALE-140 Customisation kit[2]	o	o	o	o
	ALE-160 Cordless handset		o / •		o / •

1 Availability may depend on the software version
2 DeskPhones sold with Neptune colour by default

• = included
O = optional

		ALE-300	ALE-400 / ALE-400 BT	ALE-500 w/o handset	ALE-500 / ALE-500 BT
	USB-C power adaptor 5V/3A	O	O	O	O
Power supply	Power over Ethernet (PoE)	Class 1	Class 2	Class 2	Class 2
	Power consumption idle/active	1.4W/1.8W	1.5W/2W	1.7W/2.1W	1.7W/2.1W

• = included
O = optional

Technical specifications

Physical characteristics
• ALE-300 with handset and cable:
  ¬ Height: 219 mm
  ¬ Width: 228 mm
  ¬ Depth: 162 mm
  ¬ Weight: 1477 gm
• ALE-400 with handset and cable:
  ¬ Height: 219 mm
  ¬ Width: 228 mm
  ¬ Depth: 162 mm
  ¬ Weight: 1528 gm
• ALE-500 with handset and cable:
  ¬ Height: 219 mm
  ¬ Width: 228 mm
  ¬ Depth: 162 mm
  ¬ Weight: 1525.40 gm
• ALE-500 without handset:
  ¬ Height: 214 mm
  ¬ Width: 163 mm
  ¬ Depth: 156 mm
  ¬ Weight: 1056 gm
• Colour: Neptune blue
• Continuous adjustable foot stand ranging from 25° to 60°
• Wall mountable

Display
• ALE-300: 3.5 inch colour LCD screen: 240 x 320 pixels
• ALE-400: 4.3 inch colour LCD touch screen: 480 x 272 pixels
• ALE-500: 5.5 inch colour LCD touch screen 720 x 1280 pixels

Keys
• Control smart pad
• ALE-300: 2x5 contextual keys with LED
• Function keys:
  ¬ On/off hook
  ¬ Dial-pad
  ¬ Mute with LED
  ¬ Volume keys +/-
  ¬ Hands-free with LED
  ¬ 2 personal keys/LED
  ¬ Redial
  ¬ Info and message with LED

• Programmable keys:
  ¬ ALE-300, ALE-400: 3 physical keys
  ¬ ALE-500: 5 physical keys
  ¬ Up to 72 soft keys (OmniPCX Enterprise)
  ¬ Connect Evolution or OmniPCX Office)
• Magnetic alphabetic USB-C keyboard

Connectivity
• Dual RJ-45 Gigabit Ethernet 10/100/1000 Network Interface for LAN and PC connection or Dual Homing
• RJ-9 port for corded handset
• Slot for ALE-108 Wireless Dual-Band WLAN (a,b, g, n) - Bluetooth 5.0 Module
• 2 x USB-C ports
• ALE-300, ALE-400, ALE-500: NFC for easy pairing. Bluetooth easy pairing with ALE-108

Power
• Power over Ethernet (IEEE 802.3af)
• Power consumption Idle – Active (w/o USB):
  ¬ ALE-300 corded handset: 1.4 W - 1.8 W
  ¬ ALE-400 corded and cordless handset: 1.5 W - 2 W
  ¬ ALE-500 corded and cordless handset: 1.7 W - 2.1 W
  ¬ ALE-500 without handset:
  ¬ 1.7 W - 2.1 W
• Optional USB-C power supply 5V/3A

Audio characteristics
• Super-wideband: handset, headset and hands-free
• 3D Symphonic HD (hands-free)
• Hearing Aid Compatible (HAC)
• Full-duplex speakerphone
• Acoustic echo cancellation
• OPUS Codec
• Wideband G722
• G711 (A-law and Mu-law)
• G729 AB
• Voice Activity Detection (VAD)
• Comfort Noise Generation (CNG)

Protocols and advanced communications
• IP NOE or SIP[1]
• OmniPCX® Enterprise
• OXO Connect, OXO Connect Evolution

Open application platform
• XML application support (NOE-IP)
• Corporate directory access using LDAP (SIP)

Network and provisioning
• DHCP and static IP
  ¬ Manual or dynamic host configuration protocol (DHCP) network setup (RFC2131)
• Cloud-based enrollment using ALE EDS
• QoS support
  ¬ IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DSCP
  ¬ QoS tickets
  ¬ LLDP-MED
  ¬ IEEE 802.1 AB/LLDP-MED client (IPv4/IPv6, automatic VLAN acquisition, PoE management, inventory information)
• Energy Efficient Ethernet 802.3 az support

Security
• Authentication: Basic or digest, 802.1x
  ¬ 802.1x Message Digest 5 (MD5)/ TLS: For authentication, customer certificates management (with centralized deployment)
  ¬ Denial of service (DoS) attack protection: Flooding
  ¬ ARP spoofing protection
• Transport: TLS 1.2 (RFC5246) and SRTP (RFC3711)
  ¬ Encryption and authentication of the signalling traffic
  ¬ Encryption of the media traffic.
  ¬ SCEP Support

1 Availability may depend on the software version

- Shipped with (X509v3) certificate installed
  - ¬ Certificates for 802.1x EAP-TLS (either Alcatel-Lucent Enterprise or customer certificates) for Native Encryption (NOE-DTLS support).
  - ¬ IP Sec VPN support

Languages
- Multi-language support (menu) : Arabic, Catalan, Chinese (simplified), Chinese (traditional), Croatian, Czech, Danish, Dutch, English, English Australia, English US/Canada, Estonian, Finnish, Flemish, French, French Canadian, French Swiss, German, German Austria, German Swiss, Greek, Hebrew, Hungarian, Italian, Italian Swiss, Japanese, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Portuguese Brazil, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Taiwanese, Thai, Turkish, Valencian

Regulatory Standards
- Safety
  - ¬ IEC/EN 62368-1
  - ¬ UL/CSA 62368-1
- RF (with ALE-108)
  - ¬ EN 300 328
  - ¬ FCC 47 CFR Part 15 C
  - ¬ RSS-247
  - ¬ AS/NZS 4268
  - ¬ For WLAN: EN 301 893, EN 300 440, FCC 47 CFR Part 15 E

- EMC
  - ¬ EN 55032 Class B
  - ¬ 47 CFR Part 15 B Class B
  - ¬ ICES-003 Class B
  - ¬ EN 55035
  - ¬ EN 61000-6-1 (Immunity for residential and commercial environments)
  - ¬ EN 61000-6-2 (Immunity for industrial environments)
  - ¬ EN 61000-6-3 (Emission for residential and commercial environments)
  - ¬ EN 61000-6-4 ((Emission for industrial environments)
  - ¬ IEC 60945 (Maritime)
  - ¬ IEC 60259 (IPX2)
  - ¬ IEC 62236-4 (Railway)
  - ¬ EN 301 489-1
  - ¬ EN 301 489-17
  - ¬ EN 61000-3-2
  - ¬ EN 61000-3-3
  - ¬ RF Exposure (with ALE-108): EN 62311, RSS-102, FCC KDB series
- Telecom
  - ¬ TIA/EIA 810-B
  - ¬ TIA 920.130-A-1
  - ¬ AS/CA S004
- Audio hearing aid
  - ¬ FCC47 CFR Part 68
  - ¬ Industry Canada CS-03 Part V
  - ¬ Australia AS/ACIF S040
- Eco-design
  - ¬ 2009/125/EC
  - ¬ ROHS 2011/65/EU
  - ¬ WEEE 2012/19/EU
  - ¬ REACH 1907/2006

Environmental conditions
- Temperature: Corded Handset or without Handset-5°C to +45°C
- Cordless Handset: +10°C to +45°C
- Relative humidity: 5% to 85%
- Storage temperature: -25°C/+70°C
- IP Class: IP22

Serviceability
- Syslog mode
- Port mirroring

Product ships with
- ALE-300/ALE-400: DeskPhone with handset
- ALE-500: DeskPhone with or without handset
- Safety sheet

Ordering Information
- ALE-300 Corded Handset 3ML27310AA
- ALE-400 Corded Handset 3ML27410AA
- ALE-400 Cordless Handset 3ML27420AA
- ALE-500 without Handset 3ML27500AA
- ALE-500 Corded Handset 3ML27510AA
- ALE-500 Cordless Handset 3ML27520AA

Accessories:
- ALE-100 Keyboard AZERTY 3ML37100FR
- ALE-100 Keyboard QWERTY-QWERTZ 33ML37100DW
- ALE-108 Wireless module 3ML27108AA
- ALE-120 Key expansion module 3ML37120AA

ALE-300 DeskPhone with Factory grey customisation kit 3ML27140AB

ALE-400 DeskPhone with Azur blue customisation kit 3ML27140AC

ALE-500 DeskPhone with Ruby red customisation kit 3ML27140AD

ALE-500 DeskPhone without handset Neptune blue

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