

# ALE DeskPhones Essential range

The ALE DeskPhones Essential range offers a rich communication experience with Alcatel-Lucent Enterprise solutions. The three models – ALE-20, ALE-20h and ALE-30h – include a compact design and intuitive navigation.

These rich-featured models offer the best price-performance ratio. Enjoy wideband audio quality from the handset or in hands-free mode. USB-A and USB-C ports allow you to conveniently connect a headset.

With a large display, software keys and a four-way navigation button, the Essential DeskPhones simplify the user experience. Quickly and easily contact colleagues and customers by using the optional alphabetic keyboard.



ALE-30h DeskPhone with  
ALE-10 keyboard

The ALE-20h and ALE-30h offer hybrid digital and IP connectivity, and allow you to leverage your existing infrastructure, while evolving with your needs. Make a smooth transition from digital to IP while protecting your investment. Deploy securely the Essential range in any business environment, from on premises PBX, to cloud deployment on Alcatel-Lucent Enterprise servers.

You can deploy the phones at home or in the office on ALE communication servers. The ALE-20 model includes two RJ-45 Gigabit Ethernet ports. The ALE-20h and ALE-30h models integrate an RJ-45 IP and digital port with automatic detection mode.

Features	Benefits
ALE business communications	Access all ALE communication platforms' rich and innovative services.
Digital and IP hybrid phones (ALE-20h/ALE-30h)	Leverage your existing infrastructure and make a smooth transition to IP while preserving your investment. Long range (up to 800m) deployment on a single pair in digital mode.
Compact design	Use in open spaces, hotel and hospital rooms, or cruise ship cabins.
Wideband audio quality (ALE-20 / ALE-20h and ALE-30h in IP mode)	Manage your conversations comfortably from the handset and headset, or in hands-free mode.
Alphabetic keyboard	Connect easily with your colleagues with an alphabetic keyboard, available as an option.
USB-A and USB-C ports	Plug in a headset for your daily long conversations, or add-on module (EM200), up to 3 supported.
Power consumption	Enjoy low power consumption in digital or IP with class1 PoE
Zero touch deployment on ALE solutions	Save time when deploying and operating phones in different configurations, for Alcatel-Lucent OXO Connect, Alcatel-Lucent OXO Connect Evolution, Alcatel-Lucent OmniPCX® Enterprise. VPN Client configuration with EDS Server.

## Datasheet

ALE DeskPhones Essential range



		ALE-20	ALE-20h	ALE-30h
Key highlights		2x Gigabit Ethernet 2x3 programmable keys, backlit screen USB-A/C	Hybrid Digital/IP, 2x3 programmable keys, backlit screen, USB-A/C	Hybrid Digital/IP, 2x5 programmable keys, colour screen, USB-A/C
Screen	Backlite 2.8" in.	•	•	
	Colour 3.5" in.			•
Connectivity	USB-A	•	•	•
	USB-C	•	•	•
	RJ-45 FE/GE	-/•	•/-	•/-
	RJ-45 PC port	•	-	-
	RJ9 headset/keyboard <sup>1</sup>	•/•	•/•	•/•
ALE features	Contextual keys	2x3	2x3	2x5
Audio	Wideband (IP mode)	•	•	•
	Full duplex speakerphone (IP/Digital)	•	•	•
	Echo suppression (IP/Digital)	•	•	•
Accessories	Alphabetic keyboard (ALE-10)	o	o	o
	Color expansion module <sup>2</sup> (EM-200)	o	o	o
	Wall mounting kit	o	o	o
Power supply	PoE Power over Ethernet	class1	class1	class1
	PoDL Power over Digital Line	-	•	•
	USB-C local power adaptor (option)	o	o	o
	Power consumption idle/ active (without USB)	1.2W / 1.6W	0.8W/1W	0.8W/1.2W

1 Only on 3ML37020BB & 3ML37020BA

2 Optional power adaptor required depending on context digital or IP

• = included  
o = optional

## Technical specifications

### Physical characteristics

- Height: 183 mm (7.2 inches)
- Width: 207 mm (8.2 inches)
- Depth: 35 mm (1.4 inches)
- Weight: 806 g (1.78 lb) including handset and stand
- Colour: Grey
- Adjustable feet: 40° and 55°
- Wall mounting kit

### Display

- ALE-20 and ALE-20h: 2.8 inch black and white LCD 64 x 128 pixels, white backlight
- ALE-30h: 3.5-inch colour LCD 240 x 320 pixels

### Keys

- Navigator: 4-way navigation, OK and cancel keys
- Contextual keys with Leds:
  - ALE-20 and ALE-20h: 2 x 3
  - ALE-30h: 2 x 5
- Function keys: Line hook, dial-pad, mute with LED, volume +/- keys, hands-free with LED, 2 personal keys with LED, redial, info and message with LED
- Softkeys:
  - OmniPCX Enterprise: Up to 72 softkeys
  - OXO Connect and OXO Connect Evolution: Up to 40 softkeys

### Connectivity

- ALE-20:
  - RJ-45 LAN port: Gigabit Ethernet 10/100/1000
  - RJ-45 PC port: 10/100/1000 Gigabit Ethernet switch
- ALE-20h and ALE-30h:
  - RJ-45 port: Fast Ethernet 10/100 or UA digital line
- ALE-20, ALE-20h, ALE-30h:
  - RJ-9 port for optional alphabetic keyboard and debugging
  - RJ-9 port for the corded handset
  - 1 x USB-C
  - 1 x USB-A (5V, 100mA)
  - Up to 4.5W (5V, 900mA) in Power Boost mode support or with local power adaptor

### Power supply

- Power over Ethernet (IEEE 802.3af) class1
- Optional 5V/2A USB-C power adapter
- Optional 5V/3A USB-C PD power adapter

- ALE-20:
  - Power over Ethernet (PoE)
  - Power consumption idle/active (without USB): 1.2W/1.6W
- ALE-20h:
  - Power over Digital Line (PoDL)
  - Power over Ethernet (PoE)
  - Power consumption (idle/active (without USB): 0.8W/1W
- ALE-30h:
  - Power over Digital Line (PoDL)
  - Power over Ethernet (PoE)
  - Power consumption in standby/active mode (without USB): 0.8W/1.2W

### Audio features

- Wideband comfort handset, headset, and hands-free
- Hearing aid compatible (HAC)
- Full-duplex hands-free
- Acoustic echo cancellation
- ALE-20:
  - OPUS codec (NB and WB)
  - G722
  - G711 (A-law and Mu-law)
  - G729 AB
- ALE-20h and ALE-30h:
  - G711 (A-law and Mu-law)
  - Voice activity detection (VAD)
  - Comfort noise generation (CNG)
  - In IP mode:
    - OPUS codec (NB and WB)
    - G722
    - G711 (A-law and Mu-law)
    - G729 AB

### Network and provisioning

- ALE-20, ALE-20h and ALE-30 in IP mode
- DHCP and static IP:
  - Manual configuration
  - Dynamic Host Configuration Protocol (DHCP) network setup
  - IPv4/IPv6
- QoS support:
  - IEEE 802.1p/Q tagging (VLAN)
  - Layer 3 TOS and DSCP
  - QoS tickets
- LLDP-MED: IEEE 802.1 AB/LLDPMED client
  - automatic VLAN acquisition
  - PoE management
  - inventory information
- Energy Efficient Ethernet 802.3 az support

### Protocols and business communications

- ALE-20, ALE-20h and ALE-30h in IP mode: IP-NOE

- ALE-20h and ALE-30h in digital mode: NOE-UA
- Access to all ALE communication features from:
  - OmniPCX Enterprise Communication Server
  - OXO Connect
  - OXO Connect Evolution: IP mode only

### Open application platform

- XML application support (NOE-IP)
- Corporate directory access using LDAP<sup>1</sup>

### Security

- ALE-20, ALE-20h and ALE-30h in IP mode
- Authentication: Basic or digest, 802.1x
  - 802.1x Message Digest 5 (MD5)/ TLS: For authentication, client certificate management with centralized deployment
  - Denial of Service (DoS) attack protection: Flooding
  - ARP spoofing protection
- Transport: TLS 1.2 and SRTP
  - Encryption and authentication of signalling traffic
    - Media traffic encryption
    - SCEP Support
- 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, Australian English, US/ Canada English, Estonian, Finnish, Flemish, French, Canadian French, Swiss French, German, Austrian German, German, Greek, Hebrew, Hungarian, Italian, Italian Swiss, Japanese, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Brazilian Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Taiwanese, Thai, Turkish, Valencian.

### Regulatory standards

- Safety
  - IEC/EN 62368-1
  - UL/CSA 62368-1
- EMC
  - EN 55032 Class B
  - 47 CFR Part 15 B Class B
  - ICES-003 Class B,

<sup>1</sup> available in further release

- 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)
- residential and commercial environments)
- EN 61000-6-4 (Emission for industrial environments)
- IEC 60945 (Maritime)
- IEC 62236-4 (Railway)
- IEC 60259 (IPX2)
- EN 61000-3-2
- EN 61000-3-3
- 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: -5°C to +45°C
- Relative humidity: 5% to 85%.
- Storage temperature: -25°C/+70°C
- IP class: IP22

#### **Maintenance**

- Syslog mode, Port mirroring

#### **Product ships with**

- DeskPhone with handset and stand
- Safety sheet

#### **Ordering information**

- ALE-20 3ML37020BB
- ALE-20h 3ML37020BA
- ALE-30h 3ML37030AA

#### **Accessories**

- 3ML37010xx ALE-10 alphabetic keyboard
- 3MK27007AA Extension module EM200

- 3MK27008AA Wall mounting kit
- 3MK08005xx 5V/2A USB-C Power Adapter
- 3ML37190xx 5V/3A USB-C PD Power Adapter
- 3AK21492AB 3M Ethernet cable cat5 (x10)
- 3ML37001AA 3M cat3 telephony cable RJ45-RJ11 (x10)
- 3ML37005AA Spare handset
- Wired headsets:
  - 3MK08011AB AH 21 U II premium headset monaural 3.5mm Jack/USB-A
  - 3MK08012AB AH 22 U II premium headset binaural 3.5mm Jack/USB-A
  - 3MK08018AA AH 21 M II premium headset monaural 3.5mm Jack/USB-A/C
  - 3MK08014AB AH 22 M II premium headset binaural 3.5mm Jack/USB-A/C
- Wireless headsets:
  - 3MK08xxx AH80 BT headset with USB-A dongle