ALCATEL-LUCENT
4070 DECT BASE STATIONS
4070 IO/4070 EO/4070 IO – EX

The Alcatel-Lucent 4070 DECT Base Station product family provides Digital Enhanced Cordless Telecommunications (DECT) connectivity on the Alcatel-Lucent OmniPCX® Enterprise Communication Server (CS), the Alcatel-Lucent OmniPCX Office Rich Communication Edition (RCE), and the Alcatel-Lucent OpenTouch® Business Edition (BE) for cost-effective and full-featured on-site mobility in business environments.

In conjunction with Alcatel-Lucent DECT Handsets, the 4070 DECT Base Station family offers reliable voice communications. Full integration with the value-added voice services (such as dial-by-name and multi-line management) of the Alcatel-Lucent Premium DeskPhones provide seamless feature transition between Alcatel-Lucent fixed desk phones and on-site mobility solutions.

FEATURES

• Supports OmniPCX telephony protocol
• Supports GAP protocol
• Supports Identity, Authentication and Encryption as defined in ETSI
• Radio coverage from 50 m to 300 m (approximately 55 yd to 328 yd) depending on location and environment
• Switched antenna diversity

• Products for all frequency bands: Europe, US (DECT 6.0), South America and Asia bands
• Adapted to all environments: exists in indoor, outdoor and for explosive environments (ATEX)
• Integrated antennas
• Connector for external antennas on indoor and outdoor models

BENEFITS

• Provides cost-effective on-site mobility
• End-user access to OpenTouch BE, OmniPCX Enterprise CS and OmniPCX RCE voice features
• Adapted to all enterprise environments such as office, industrial and explosive
• Suitable for all sizes of enterprise business: Small, medium and large
• External antenna for difficult area coverage

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TECHNICAL SPECIFICATIONS

Radio specifications

- DECT/GAP
- Frequency band:
  - ¬ 1.88 GHz to 1.90 GHz (Europe)
  - ¬ 1.91 GHz to 1.93 GHz (South America)
  - ¬ 1.92 GHz to 1.93 GHz (US)
  - ¬ 1.90 GHz to 1.92 GHz (Asia)
    Note: ATEX version available for Europe only
- Channels can be disabled by call server to adapt to local regulations
- Channel bandwidth: 1.728 MHz
- Transmission carriers: 10
- Number of simultaneous active time slots: six max
- RF power 250 mW, limited to 100 mW for US (DECT 6.0)
- Radio coverage from 50 m to
- 300 m (approx 55 yd to 328 yd) depending on location and environment
- Switched antenna diversity
- Integrated omnidirectional antenna 3 dBi gain (maximum)
- SMA connectors for connecting external antennas
- SAR: less than 0.25 W/kg for six simultaneous active calls

Protocol specifications

- ETSI GAP-compliant
- Supports identity, authentication and encryption
- Software downloading from call server

Electrical interface

- 1 or 2 TDM UA interface
- Twisted pair cabling remote feeding up to 1200 m/approx. 1312 yd

Power feeding

- Remote power feeding on TDM link. Typical consumption for six simultaneous calls: 2 W
- Local power feeding for extended wiring range to call server (indoor version)
- Uses same power supply as Alcatel-Lucent fixed wired phones (48 V)

Environmental

Environmental

- IEC 721-3-1 Storage
- IEC 721-3-2 Transport
- IEC 721-3-3 Stationary
- IEC 721-3-7 no Stationary

Operating temperature

- Indoor: +10°C to +40°C (+50°F to +104°F)
- Outdoor, ATEX: -20°C to +55°C (approx. -4°F to +131°F)

IP class

- Indoor base station: IP 20
- Outdoor base station: IP 55
- ATEX base station: IP 65

Physical specifications

- Wall-mountable
- Indoor
  - ¬ Height: 8.5 in. (215 mm)
  - ¬ Width: 6.7 in. (170 mm)
  - ¬ Depth: 1.8 in. (45 mm)
  - ¬ Weight: 15.5 oz (440 g)
- Outdoor
  - ¬ Height: 14.4 in. (365 mm)
  - ¬ Width: 8.3 in. (210 mm)
  - ¬ Depth: 2.6 in. (65 mm)
  - ¬ Weight: 52.2 oz (1.48 kg)
- ATEX
  - ¬ Height: 29.92 in. (760 mm)
  - ¬ Width: 11.81 in. (300 mm)
  - ¬ Depth: 5.90 in. (150 mm)
  - ¬ Weight: 359.8 oz (10.2 kg)

Regulatory

EC Directive

- 1999/5/EC (R&TTE)
- 94/9/EC (ATEX)

Safety

- IEC 60950-1
- EN 60950-1
- UL 60950-1*
- CAN/CSA-22.2 No 60950-1*

* For indoor and outdoor base stations only

EMC and radio

- EN 301406 DECT RF
- EN 301489-06 EMC
- FCC CFR47 Part 15D US Code of Federal Regulations SAR*

* For indoor and outdoor base stations only

SAR

- EN 50385 Human exposure
- FCC OET Bulletin 65 supplement C US Human exposure*

* For indoor and outdoor base stations only

DECT

- EN 300 175 DECT CI
- EN 301 406 (TBR6) DECT RF
- TBR10 Telephony
- TBR22 GAP

ATEX classification

- II 2 G EEx de IIC T6

ATEX standards

- EN 60079-0 general requirements
- EN 60079-1 Flameproof enclosures "d"
- EN 60079-7 equipment protection by increased safety "e"

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