Alcatel-Lucent 4070 DECT Base Stations

4 0 7 0   I O / 4 0 7 0   E O / 4 0 7 0   I O - E x

The Alcatel-Lucent 4070 DECT Base Station product family provides Digital Enhanced Cordless Telecom-munications (DECT) connectivity on the Alcatel-Lucent OmniPCX™ Enterprise Communication Server (CS) and Alcatel-Lucent OmniPCX Office Communication Server for cost-effective and full-featured on-site mobility in business environments.

In conjunction with Alcatel-Lucent 300/300Ex/400 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 OmniPCX Enterprise CS and the OmniPCX Office CS provides seamless feature transition between Alcatel-Lucent fixed desk phones and on-site mobility solutions.

4070 IO

4070 EO

4070 IO-Ex

Key features

- Supports Alcatel-Lucent 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

Key benefits

- Provides cost-effective on-site mobility
- End-user access to OmniPCX Enterprise CS and OmniPCX Office CS 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

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 Fameproof enclosures "d"
- EN 60079-7 equipment protection by increased safety "e"

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