# Powerful & modular architecture

**Alcatel OmniPCX *Office* is a simple, powerful e-communication appliance that makes internet, e-mail, LAN and advanced telephony available to small and medium-sized businesses. It is a modular all-in-a-box solution that is easily acquired, simple to install and maintain, fully cost controllable, and is easy to evolve as the company grows.**

## E-communication: internet, voice and data

Alcatel OmniPCX *Office* integrates internet, voice and data into a single system.
And because it works on any infrastructure for data access network and voice access network, it offers a solution whatever the existing infrastructure:

- ISDN T0/T1/T2
- PSTN
- ADSL
- Frame Relay, IPVPN
- Private Network QSIG/ISVPN

## All-in-a-box appliance

Alcatel OmniPCX *Office* is an appliance, i.e. a server with preconfigured applications. It integrates multiple functions in a single device:

- router, firewall,
- proxy/cache server
- call server
- e-mail server
- DHCP server
- DNS server
- CTI server
- LAN

As a result, Alcatel OmniPCX *Office* is highly cost effective. It uses a single infrastructure for both voice and data, allows shared and secured internet access, and is very easy to manage because all applications are embedded.

## Standard protocols

Alcatel is the first leading manufacturer in its field to adopt Linux, an operating system with broad acceptance across the computer industry. Linux is a reliable, extremely powerful and stable operating system, compatible with numerous applications and especially with internet services (since it integrates the main internet protocols). What's more, because Alcatel OmniPCX *Office* is based on standard protocols CSTA, TAPI and IP, it is open to a wide choice of applications developed by Alcatel and its partners.

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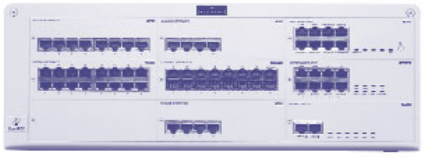
## Modularity and scalability

Alcatel OmniPCX *Office* offers a high degree of scalability. To cover the whole market segment (from 6 up to 236 users), Alcatel OmniPCX *Office* is available in 3 different data form factor modules that can easily be mounted in a 19 inch cabinet.

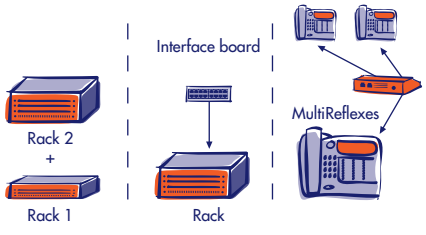
Alcatel OmniPCX *Office* Rack1

Alcatel OmniPCX *Office* Rack2

Alcatel OmniPCX *Office* Rack3



Alcatel OmniPCX *Office* allows great flexibility of configurations and services, thanks to its modular hardware architecture and universal back panel slots. With its unified software, Alcatel OmniPCX *Office* evolves simply by adding cabinets, interface boards and MultiReflexes.




## Boards

### Processing Unit

- Operating system: LINUX
- Standard Processing Unit (CPU): voice and data application
- Enhanced Processing Unit (CPUe): Internet access, voice and data application
- Daughter boards: Auxiliary functions, XMem or Hard Disk, HSL
- Expansion Module: use for cabinet expansion

### Co-Processing Units

- VoIP Co-processing Unit (CoCPU): with VoIP daughterboard 4/8/16 DSP channels
- Internet Co-processing Unit (CoCPU@): internet (proxy, cache), e-mail, VPN and WAN daughterboard for external DSL modem or for external router (LAN-LAN routing)
- Daughterboard: SLANX4 for processing unit and Co-processing units interconnection

### Interface boards

***Terminals***

- Digital Interfaces UAI 4, 8, 16
- Analog Interfaces SLI 4, 8, 16

***WAN***

- BRA boards (T0) 2, 4, 8
- PRA boards (T1, T2) 1
- Analogue trunk[1] 2,4
- Mixed boards T0/UA/SL 2/4/4, 4/4/8, 4/8/4, 0/4/4, 0/4/8, 0/8/4

***LAN***

- Ethernet LANswitch LanX 8,16 10/100 BT auto-sense unmanaged

[1] *Available in release 1.1*

| **System** | **Maximum Capacities** |
|---|---|
| Rack 1 / Rack 2 / Rack 3 | 3 slots / 6 slots / 9 slots |
| Rack 1 | 66/440/400 mm |
| Rack 2 | 110/440/400 mm |
| Rack 3 | 154/440/400 mm |
| Any combination up to 3 racks | Up to 27 slots |
| Co-processing CPU (CoCPU) of which 1 CoCPU@ max per system | 6 |
| DSP channels on CoCPU | 96 |
| Hard Disk | 2 |
| Hard Disk capacity | 6 Gbytes |
| Maximum users | 236 |
| UA sets | 236 |
| Mobile Reflexes | 235 |
| IP Reflexes/ PIMphony IP | 200 |
| Analog sets | 196 |
| H323 sets | 150 |

| **Communication ports** | **Maximum capacities** |
|---|---|
| User ports (Reflexes + Analog) | 200 |
| MultiReflexes Hubs | 18 |
| LANswitch boards | 6 LANX16 |
| Free LANswitch port | 84 |
| Analog trunks (NDDI-DDI-TieLine) | 72 |
| Primary Rate Access | 9 |
| Basic Rate Access | 12 |
| IP trunks | 120 |
| **Total Trunks** | **120** |

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