

▶ Polycom® KIRK® DECT Application Module 6.0



Polycom proudly presents the innovative and high performance KIRK DECT Application Module 6.0 that allows you to add much more than outstanding wireless capability to your products...

Maximum Performance in Minimum Size

The KIRK DECT Application Module 6.0 is a wireless application module that supports voice, messaging and data. It comes in two versions: either engineered with wireless portable device functionality or with radio infrastructure functionality.

It is smaller than any existing DECT module that comprises the same features and comes complete with an EKGAP (Enhanced KIRK Generic Access Profile) Desktop Development Environment and pre-supplied software.

The module guarantees outstanding performance with high sensitivity and low power consumption. It offers you the possibility of developing a complete wireless communication solution ranging from personal wireless monitoring devices to alarm systems connected to machinery in a factory... the only limit is imagination!

A Cost-Saving Solution for Your Wireless Product Development

The KIRK DECT Application Module 6.0 comes with onboard antennas and is fully radio approved (EU DECT), integrating the wireless module to a mainboard means that it is unnecessary to perform any further radio tests.

To save battery lifetime, the module is equipped with power supply management and prepared for transmit power management as well. The power supply, which ranges from 2.7V to 5.5V, makes the use of 3-cell or lithium ion batteries possible.

The EKGAP Desktop Development Environment is based purely on open source available software, which cuts development costs considerably, and can be used to program software for the module (apart from some low-level hardware drivers).

Save Time and Effort

The frontline wireless technologies developed by Polycom guarantee easy integration with your products, since it is possible to SMD-mount the module like any other SMD component. It requires no special handling.

About Polycom

Polycom, Inc. (NASDAQ: PLCM) is the global leader in telepresence, video, and voice solutions and a visionary in communications that empower people to connect and collaborate everywhere.

Companies choose Polycom solutions because they allow geographically dispersed workforces to communicate more effectively and productively over distances. Using Polycom voice, video, and telepresence products and services, people connect and collaborate with one another from their desktops, meeting rooms, class rooms, and mobile settings rather than travelling to one place to solve problems.

Find out how your workers can quickly collaborate "face-to-face" wherever they are. Visit www.polycom.com.

- ▶ Improve responsiveness and productivity of mobile workers dramatically
- ▶ Deliver high-quality and secure voice communications across all enterprise environments
- ▶ Leverage investment in circuit-switched and IP PBX features throughout the workplace
- ▶ Increase business efficiency by integrating with application systems and business processes
- ▶ Maximize employee availability using simple, reliable and durable devices

Polycom® KIRK® DECT Application Module 6.0

Key Features

- Smaller than any existing DECT module that comprises the same features
- EKGAP Desktop Development Environment and pre-supplied software
- Outstanding performance, high sensitivity and low power consumption
- Cost-saving features:
 - Fully radio approved component
 - Onboard antennas
 - EKGAP DDE based on open source software
- Easy to integrate (no need for special handling)
- RoHS compliant
- Mounted with the use of LLP (Leadless Lead frame Package)
- Dual antenna diversity functionality

Pre-supplied Software:

The KIRK DECT Application Module 6.0 is shipped with default firmware, which provides default DECT behavior.

The EKGAP Desktop Development Environment is based purely on open source available software and can be used to program software for the module (apart from some low-level hardware drivers). It allows you to program additional behaviour, or completely replace the default firmware and develop your own application based on the Polycom KIRK DECT protocol stack.

The EKGAP DDE is integrated with the widely used Eclipse IDE and a cross compiler. It runs on a Windows or Linux PC and supports a number of novel debugging features:

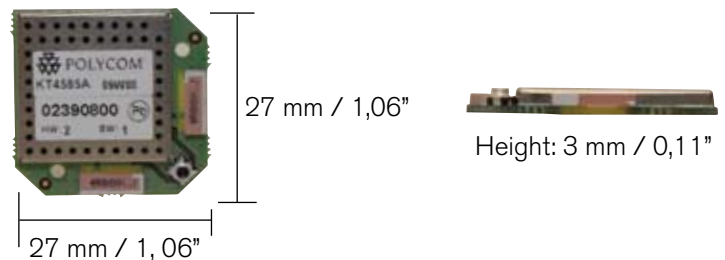
- Trace & Replay: this feature allows the developer to make a detailed trace of a module execution scenario. This trace can be replayed in a simulation environment.
- Host Execution: the DECT protocol stack and application can be simulated in real time on a host processor.

Technical Info:

The main parts of the KIRK DECT Application Module 6.0 are the fully integrated DECT radio transceiver and baseband processor.

The design adds Power Amplifier, SPDT switch, ceramic antennas and other components in order to achieve the desired functionality required for DECT/GAP.

RF range	Approved for EU DECT (1880-1896 MHz) Prepared for the full DECT frequency range (1870-1930 MHz)
DECT channels	60 logical duplex channels
Receiver sensitivity	Typ. < -94dBm [BER, 1000 ppm]
Transmit power (NTP)	Typ. 22 dBm
Power supply range	2.70 V – 5.50 V
Current consumption	200mA avg., 500mA peak (VBAT=2.7V)
Temp. Range	-20°C to +60°C / -4°F and 140°F
Size	27mm x 27mm x 3mm (1,06" x 1,06" x 0,11")



Fully approved:

- Radio (TBR06): EN 301 406 V1.5.1
- Safety: EN 60950-1:2006*
- EMC: EN 301 489-1 / En 301 489-6*
- Health: EN 50385:2002 (R&TTE, Article 3.1a, Council Recommendation 1999/519/EC)*
- Complies with GAP: EN 300 444
- Complies with DECT CI: EN 300 175-1 to 8
- Prepared to comply with the FCC rules part 15/subpart D, IC, and UL requirements

*Type approval limited to the component supplied.

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Polycom EMEA
270 Bath Road, Slough,
Berkshire SL1 4DX, UK
(T) +44 (0)1753 723000
(F) +44 (0)1753 723010

Polycom Headquarters
4750 Willow Road,
Pleasanton, CA 94588
(T) 1.800.POLYCOM
(765.9266)
for North America only

Polycom Asia Pacific
8 Shenton Way
#11-01 Temasek Tower
Singapore 068811
+65.6389.9200

For your local Polycom office please visit www.polycom.com

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