



PANTECH

Pantech is providing modules and routers to various IoT services and major operators since 2013. Pantech's innovative R&D power and rich experience of global communication business will help customers to enable excellent IoT services effectively.

IoT Modules and Routers



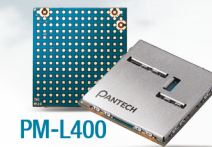
PM-W100



PM-W200



PM-L300



PM-L400



PR-W101



PR-L300

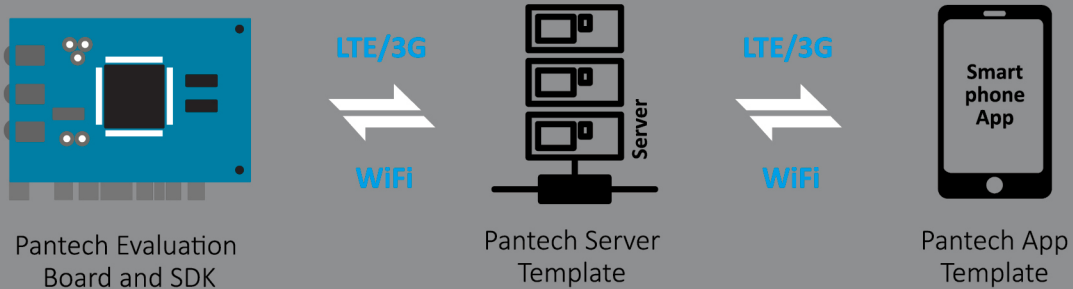


PR-L400

| Type | Embedded Module - BtoB connector | | | Embedded Module - LGA | External Modem | LTE Router | |
|-------------------|--|--|---|--|--|---|---|
| Main Chipset | QSC6240 | QSC6270 | MDM9215 | MDM9207 | QSC6240 | MDM9215 | MDM9207 |
| Size (mm) | 38 x 30 x 5 | 38 x 30 x 5 | 41.85 x 30 x 5 | 26.7 x 28.1 x 2.65 | 61 x 41 x 10.5 | 110 x 79 x 21.9 | 110 x 79 x 21.9 |
| Bands | WCDMA B1 | WCDMA B1 | WCDMA B1 / LTE B3,5 WCDMA B1 / LTE B3,8 WCDMA B1,6,8,19 / LTE B1,3,8,19,21,41 | WCDMA B1 / LTE B3,5 WCDMA B1 / LTE B3,8 WCDMA B1 / LTE B1,5,7 WCDMA B1,6,8,19 / LTE B1,3,8,19,21,41 | WCDMA B1 | WCDMA B1 / LTE B3,5 WCDMA B1 / LTE B3,8 WCDMA B1,6,8,19 / LTE B1,3,8,19,21,41 | WCDMA B1 / LTE B3,5 WCDMA B1 / LTE B3,8 WCDMA B1 / LTE B1,5,7 WCDMA B1,6,8,19 / LTE B1,3,8,19,21,41 |
| Data Speed | 3G (DL 384 / UL 384kbps) | HSDPA (DL 3.6Mbps / UL 384kbps) | LTE FDD Cat 3 (DL 100 / UL 50Mbps) HSPA+ (DL 42 / UL 5.76Mbps) | LTE FDD Cat 4 (DL 150 / UL 50Mbps) HSPA+ (DL 42 / UL 5.76Mbps) | 3G (DL 384 / UL 384kbps) | LTE FDD Cat 3 (DL 100 / UL 50Mbps) HSPA+ (DL 42 / UL 5.76Mbps) | LTE FDD Cat 4 (DL 150 / UL 50Mbps) HSPA+ (DL 42 / UL 5.76Mbps) |
| Memory | 1G NAND / 512MB DDR | 1G NAND / 512MB DDR | 2G NAND / 1G LPDDR | 4G NAND / 2G LPDDR2 | 1G NAND / 512MB DDR | 2G NAND / 1G LPDDR | 4G NAND / 2G LPDDR2 |
| Voice / GPS | - | - | Voice GPS / GNSS | Voice (optional) A-GPS / GNSS | Voice | GPS / GNSS | A-GPS / GNSS |
| Interfaces | RF Ant. connector 80pin connector USB2.0 High Speed UART USIM slot GPIO | RF Ant. connector 80pin connector USB2.0 High Speed UART USIM slot GPIO | RF/Diversity Ant. connector GPS Ant. connector 80pin connector HSIC USB2.0 High Speed UART USIM slot GPIO SPI | RF/Diversity Ant. contact pads GPS Ant. contact pad HSIC USB2.0 High Speed UART USIM GPIO SPI | RF Ant. port USIM slot GPS SMA Ant. port 20Pin connector UART 5pin connector | 4 Ethernet ports (RJ45) RF / Diversity SMA Ant. ports micro USB port USIM slot GPS SMA antenna port 26Pin Connector - UART - SPI Fixed DC5V, Car 7V~24V | 4 Ethernet ports (RJ45) RF / Diversity SMA Ant. Ports micro USB port USIM slot GPS SMA antenna port 26Pin Connector - UART - SPI Fixed DC5V, Car 7V~24V |
| Software Features | REX FOTA SMS USB DM | REX FOTA SMS USB DM | Linux (Kernel 3.x) FOTA SMS USB DM | Linux (Kernel 3.x) FOTA SMS USB DM | REX FOTA USB DM | Linux (Kernel 3.x) FOTA USB DM | Linux (Kernel 3.x) FOTA USB DM |

Pantech IoT Development Kit

Customers can save development cost and time utilizing Pantech IoT development kit which includes open hardware and software based on oneM2M.



- Evaluation board and Pantech proprietary SDK based on &Cube
- Pantech IoT Dev. Kit has all necessary parts which customers can test in advance
 - Display, Charging, Sensors, BT/WiFi, Codec, ethernet, Slic IC, SD card, UIM, Ext.Port parts
- Server template linked with EV board and SDK
 - based on Mobius
 - provide Test server
- Smartphone app template which monitor/controls EV board and SDK
 - Android and iOS

For more detailed information about Pantech IoT products, please contact your Pantech account manager or IoT@pantech.com.



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