Asiatelco Technologies Co., is a Leading supplier of Wireless Access Devices. Based in Shanghai, China, Asiatelco specializes in the Design, Development and Manufacture of Devices and Components to solve the Last Mile Access Problem.

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About Us

- Asiatelco Technology Co. (ATEL) is a Last Mile Access Solutions Manufacturer.
- Headquartered in Pudong, Shanghai, China.
- 2010 Deloitte Touche Tohmatsu Award  
  Fast 500TM Tecnologia Asia-Pacific 2010 (#58)
- 2010 Deloitte Touche Tohmatsu Award  
  Asia Technology Fast 50  
  China 2010 (#26)
- 2009 Shanghai Government Award  
  High & New Technology Enterprises
- ISO 9001 Enterprise
- Strategic Alliances with High Technology Companies
- OEM / ODM R&D, Manufacturer of world brands
Clientes em todo o Mundo
Asiatelco’s Technology Evolution

- ATEL's APPROACH
- EV DO
- CDMA / CDMA 2000 1x
- GSM GPRS EDGE
- HSDPA / HSUPA
- ATEL LTE Advanced Module
- ATEL CDMA + GSM MTK Telephone Celular
- ATEL’s CDMA ou GSM Aparelho Sem Fio
- M2M Solutions
- Data Solutions
- Voice Solutions
- ATEL EVDO Advanced Module
- ATEL’s “State of the Art” transceptor LTE (4G)
Asiatelco CDMA wireless products provide seamless solutions for Voice, SMS, Data and M2M applications.
### CDMA – LTE Roadmap

<table>
<thead>
<tr>
<th>Module</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-end FWP</td>
<td>CDMA/GSM</td>
<td>EVDO</td>
<td>LTE</td>
<td>EVDO</td>
<td></td>
</tr>
<tr>
<td>Dongle/Modem</td>
<td>CDMA</td>
<td>CDMA/GSM</td>
<td>EVDO</td>
<td>LTE</td>
<td></td>
</tr>
<tr>
<td>Router</td>
<td>EVDO</td>
<td>EVDO</td>
<td>LTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-end FWP</td>
<td>EVDO</td>
<td>LTE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: CDMA/GSM and LTE are technologies supported by the devices over the years.*
CDMA 450 Fixed Wireless Telephones

Voice, SMS and Data Solutions
1x Data Connections at 153.6Kbps

User Friendly Minded
Sturdy & Practical
Sophisticated
Portable
Elegant & Classical
Euro Styling
Robust & Compact
CDMA 450 Mobile Phones

Voice, SMS and Data Solutions
1x Data Connections at 153.6Kbps
CDMA 450 Data Modems (Dongles)

Data Solutions
EVDO Solutions at 3.1 Mbps
**M2M Solutions Overview**

<table>
<thead>
<tr>
<th>CDMA 2000 offers a perfect environment for the development of M2M applications:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Reliable</td>
</tr>
<tr>
<td>☐ Ubiquitous</td>
</tr>
<tr>
<td>☐ Affordable</td>
</tr>
<tr>
<td>☐ Offers High Data Rates</td>
</tr>
<tr>
<td>☐ GPS built-in</td>
</tr>
<tr>
<td>☐ Secure</td>
</tr>
</tbody>
</table>

1x data rate of 115.2Kbps can deliver robustness for M2M appl.

**Add 450 Spectrum to the equation:**

| ☐ Robust |
| ☐ Outstanding Performance |
| ☐ Unbeatable Propagation characteristics |
| ☐ Better indoor penetration |
| ☐ Excellent SNR |
| ☐ Economical |
| ☐ Lowest CapEx and OpEx* |

*When compared to higher frequencies

**If EVDO is added:**

Broadband Access allows Unimaginable M2M applications and services become possible that extend far beyond monitoring, control, telematics, telemetry, maintenance and process automation.

**Typical M2M Applications**

- AMR - Automatic Meter Reading
- Remote Sensing
- Telemedicine
- Advertisement
- Control and Logistics of Fleets
- Control of Pipes, Ducts & Mining
- Control of Industrial Machinery
- Home & Building Automation & Control
- Banking
- Energy Management
- Smart Grids
- Cellular M2M (MMO)
- Law Enforcement & Public Safety
- Video-on-Demand
- Inventory Control, etc.
**M2M Applications**

- Utility Meters
- Traffic Signs
- Vending Machines
- Speed Monitoring
- Security Cameras
- Health Devices
- Oleoduct
- Fleet Control
- Billboards
- Household Appliances
- Industrial Machinery
- Security Alarms
- Banking

**CDMA 450 A/B/C/F**

Core Solutions

- CDMA Integrated Modules
- Script Language
- Linux
- Android
- M2M Solution

Wireless modules can be used in many M2M applications

Atel modules are:

- Applications are easy, quick and inexpensive to implement
- Cheapest in the market to deploy as an end-product
- Sturdy and used in many diverse applications
- Programmer has flexibility between script language, Linux or Android. Knowledge of Java is most useful for the Android platform.
CDMA 450 M2M General Products

**Data Transfer Unit**
Programmable, GPS ready can support multiple applications including remote monitoring, electronic locks, etc.

**Convergence of Voice + M2M**
Fixed Wireless Phone Tariff Machine that Embeds the Software Application and communicates via SMS to update rate tables

**Data Modem**
Fixed Wireless Modem with or without antenna diversity to use in M2M applications.

**Data Evolution**

**Data Transfer Unit**
EVDO Diversity Antenna Data, SMS

**POS**
Point of Sales Wireless Terminal

**Security Camera**
Motion Detector MMS SMS command control Real Time Audio
CDMA 450 Fixed Wireless Phones + Combo Function

Possible Functions
- Pay Phone
- Extension
- Tariff Machine

Voice, SMS, Data and M2M Solutions
CDMA 450 Security

- Completely wireless installation.
- Send MMS to cell phone or Email.
- Control by SMS command.
- Motion Detection
- Infrared detector
- Night vision
- Real-time audio
- Backup lithium battery.
CDMA 450 DTU & Modem Routers
CDMA 450 Payphone Solution

Main Features

- Integrated ATEL CDMA 2000 1x RTT network Module
  ATEL module WM6615/D for CDMA 450MHz Block A/C/F
- 128 x 64 dots LCD display with backlight
- External Antenna available (TNC Connector)
- 32 bit microprocessor
- 1 Mb Flash memory
- Low power design
- Capable of Remote Programming of data (rates) and software via 1x network up to 153.6 Kbps
- Card Chip Reader and/or Coin Operated
- Auto-diagnostics, Reporting
- User Friendly Remote Access Management System
- Provides Over-the-Internet (1x) or Over-the-Air (OTA) or Over-SMS (OSMS) unattended programming of payphone parameters.
- Edit remote access number and display messages
- Alarms monitoring
- Storage of Call Records
- Operation Voltage 12VDC +/- 20%
- All environmental complying with ATEL devices

PPoTC
PayPhone
Over The
Counter

Voice, SMS, Data and M2M Solutions
• TDD/FDD
• 698-2690MHz
• Triple band, BW 1.4-20MHz
• Combination of TDD and/or FDD solution, single/dual/tri-band)
Asiatelco’s Key points

- CDMA 450 is a viable, effective voice, SMS, data and M2M solution;
- CDMA 450 thrives in developing markets with low density;
- CDMA 450 has a complete lineup of devices with competitive prices and features;
- Asiatelco modules can be used in countless devices creating many new possibilities for new devices and gadgets development;

Hugo Hiraoka
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Download at www.asiatelco.com
Q: How to solve the Last Mile Access Problem?

Asiatelco, Passion for Innovation
Last Mile Access Solutions

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CDMA / GSM Fixed Wireless Phones
EVDO FWP
EVDO USB Dongles

CDMA・GPRS Machine to Machine Asiatelco Ready Solutions

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