

# CDMA450

## Device Selection Roadmap

CDMA Development Group  
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# CDMA2000: The Largest Selection of 3G Devices

Over 2050 CDMA2000 devices have been introduced to the market

Entry-level  
Voice-centric  
Handsets



Personal  
Messaging  
Mobile Phones



Fixed Wireless  
Phones



Smartphones



EV-DO  
Fixed Wireless  
Terminals



Interactive  
Multimedia  
CE Devices



EV-DO  
PC Modems



EV-DO  
Wireless Routers



WorldMode™  
Global Roaming  
Phones



Television  
Phones



EV-DO  
PCexpress  
Embedded Modules  
for PC Notebooks



**More than 625 EV-DO broadband data devices  
have been commercialized by more than 55 device suppliers**

\* CDMA450



# CDMA450 Devices



# CDMA450 3G Devices

Over 110 CDMA450 devices have been introduced to the market



87 CDMA450 1X devices

15 CDMA450 1xEV-DO devices

14 CDMA2000 1xEV-DO Rev A devices

2 WorldMode™ Interstandard device

Note: Above devices are representative samples.  
This is not an all inclusive list



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# CDMA450 3G Devices (Cont.)



## Expanding requirements include:

- EV-DO Rev A in fixed wireless terminals, data cards and handsets
- Low-cost, low-power, small footprint, voice-only CDMA2000 1X devices
  - Dual-band to allow urban coverage
  - Multi-mode to provide roaming to GSM

**Note:** Above devices are representative samples.  
This is not an all inclusive list

Huizhou Qiaxing  
COSUN



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# 3G CDMA450 Fixed Terminal Connections

*CDMA450 terminals support a variety of communications needs*



***Connecting the home, school and office to the world!***



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# CDMA450 Device Suppliers

*Several OEMs and ODMs supply a full range of affordable CDMA450 devices*

- **Aiji** (Korea) – FWP, VLE, LE, Rev. A data products
- **Anydata** (Korea) – Rev A data products, Rev. A Smartphone
- **Axesstel** (Korea) – FWP, Rev. A data products
- **CMOTech** (Korea) – Rev. A data products
- **G-Mode** (Korea – FWP, VLE, LE
- **Haier** (China) – FWP, VLE, LE, DM
- **Hisense** (China) – FWP, VLE, LE, DM
- **Huawei** (China) – FWP, VLE, LE, Rev. A data products, Rev. A PTT handset
- **Hyundai Petatel** (Korea) – LE
- **LG Nortel** (Korea) – FWP
- **Rose Telecom** (Korea) – LE
- **Sungil** (Korea) – Rev. A Data products
- **Syncwiser** (Korea) – Rev. A Data Modem
- **Teleepoch** (China) - FWP, VLE, LE, DM, DB
- **Ubiquam** (Korea) – FWP, LE, Rel. 0 Data products, Rel. 0 handset
- **ZTE** (China) – FWP, VLE, LE, Rev. A data products, 1X PTT handset

FWP = Fixed Wireless Phone

VLE = Very Low End (Voice, SMS, B&W screen)

LE = Low End (Voice, SMS, 1x data, colour screen)

ME = Mid End (Voice, SMS, 1x data, camera, some high end features such as MP3)

DB = Dual Band (450/800)

DM = Dual Mode (450/GSM)



# Industry Initiatives to Further Reduce Time-to-Market and Cost of CDMA450 devices

- **The CDG Global Handset Requirements for CDMA (GHRC) team has developed common requirements to reduce cost and time-to-market**
  - Operators have already used the requirements to obtain handsets at a significant price discount – below **\$25** (ex-factory)
  - Currently, teams of operators and manufacturers are working on:
    - Ultra-low-cost devices for developing markets
    - Mid-tier 1xEV-DO data cards
    - Mid-tier WorldMode multimode devices for interstandard roaming between CDMA2000 1X/1xEV-DO and GSM/GPRS
    - Low-tier handset and mid-tier EV-DO card for CDMA450
- **CDMA Certification Forum (CCF) is streamlining the test process to bring CDMA450 devices to market quickly and at lower cost**
  - First phones submitted to CCF were certified in three weeks with increased test coverage and at a cost of 20% of the traditional test process
  - CCF test facilities are operating in North America and Asia
  - Gaining momentum with the tier-one manufacturers, including Nokia and Motorola



**THANKS!!!**

