CDMA/GSM Wireless Module

The CDMA and GSM modules create a BANDIT™ family of wireless products that offer secure IP connectivity to users of legacy protocols for transport over wireless networks. The combination of these capabilities offers enterprises a quick and economical solution for both permanent and temporary wireless installations.

For end-users, the economics of using cellular for telemetry or transaction based applications as an alternative to expensive landlines or satellite links are particularly strong. Many telemetry and transaction devices such as lottery terminals, ATM's, utility RTU's, security equipment, and point of sale devices operate on dedicated lines with speeds of 56 kbps or less. The BANDIT™ wireless products can be easily deployed to provide up to 144 kbps of cellular bandwidth to support these applications at a significantly reduced cost.
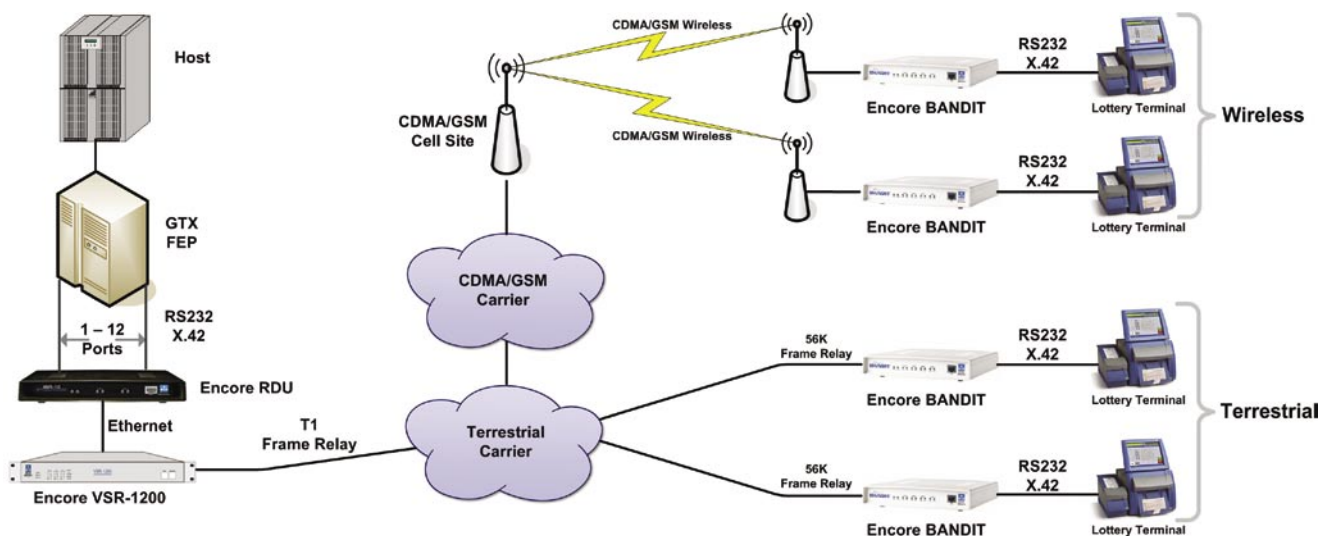
For carriers, the wireless BANDIT™ provides terrestrial carriers having "out of territory" cellular partnerships with a great last mile solution. Where a terrestrial carrier may lack a footprint in a particular region, the wireless BANDIT™ can be used with their cellular partner to quickly simplify a large customer deployment and save the carrier from having to lease data circuits from a LEC.

The new cellular modules fit in the universal card slot of the BANDIT™, BANDIT-IP™, BANDIT-PLUS™, and VSR-30™. The modules can be ordered separately or be factory pre-installed.

Sample Lottery Application

Cellular offers quick deployment and a low cost transport for state lotteries. Today when state lottery signs up a new retailer it can take up to six weeks for a landline to be installed. With the wireless BANDIT™, a new retailer can begin generating revenue immediately. Also the lottery can use cellular connectivity for special events like state fairs, trade shows, sporting events and other temporary locations.

In the diagram below, the BANDIT™ is fitted for either cellular or terrestrial applications. A state lottery quickly deploys new retailers with cellular before switching over to Frame Relay. A lottery could also permanently deploy cellular as a primary transport.

Lottery Over Wireless And Terrestrial With Frame Relay Host

BANDIT™   Includes 0dB Antenna

BANDIT™   Shown With Optional +3dB Gain Antenna

CDMA Specifications:
- ► Antenna Interface: 50 Ohm SMA Female
- ► EVRC, 13kQCELP
- ► Data rates up to 153 kbps forward and reverse
- ► Circuit Switch (IS707-A.4)
- ► Packet Data (IS707-A.5)
- ► AMPS (Analog) voice
- ► RUIM (for China only – see R-UIM Interface)
- ► OTASP, OTAPA
- ► IOTA
- ► Wireless interface: CDMA2000 (IS-2000)
- ► Band (CDMA2000) – (Dual Band)
  - • Band class 0 (TX: 824 ~ 849 MHz/ RX: 869 ~ 894 MHz)
  - • Band class 1 (TX: 1850 ~ 1910 MHz/ RX: 1930 ~ 1990 MHz)

GSM/GPRS Specifications:
- ► Dual Band EGSM/GPRS
- ► Module (EGSM 900/1800 MHz, EGSM
- ► 850/1900MHz) designed for M2M and Compliant with ETSI GSM Phase 2+ standard
- ► Class 4 (2W @ 900 MHz)
- ► Class 1 (1W @ 1800 MHz)
- ► Data circuit asynchronous, transparent and non transparent up to 14400 bits/s
- ► Fax group 3 (Class 1 and 2)
- ► GPRS packet Data features
- ► GPRS Class 2 or Class 10
- ► Coding Schemes: CS1 to CS4
- ► PBCCH support

Safety and Governmental Agency Approval :

The CDMA module shall comply with the following standards or guidelines:
- ► IEC950, for electrical safety
- ► UL950, for electrical safety
- ► FCC Part 15
- ► FCC Part 22 (800 MHz), Part 24 (1900 MHz)
- ► CSA for Canada
- ► CDG 1, 2 (IS-98D, IS-898)
- ► CDG 3 (application specific)

TELEPRIME™
"Connecting Technology to People Worldwide"™

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