GTM351E

EMBEDDED WIRELESS MODULE

HSDPA │ 3G UMTS │ EDGE │ GPRS

The GTM351E PCI Express Mini Card module provides Wireless WAN functionality to any device with a compatible PCI Express Mini Card slot. In particular, the GTM351E is the solution of choice for embedding HSDPA, UMTS and EDGE connectivity into laptops devices. It supports HSDPA 1.8 Mbps, UMTS WCDMA in the 2100 MHz band and EDGE/GPRS Quad band (850/900/1800/1900 MHz), thereby ensuring worldwide operation.

"Connect anytime, anywhere"

FEATURES

> Multimode UMTS/EDGE/GPRS/GSM card with HSDPA 1.8 Mbps support
> Provides HSDPA High-speed data (up to 1.8 Mbps downlink and up to 384kbps uplink) connectivity on HSDPA-equipped networks
> Provides UMTS High-speed data (up to 384 kbps) connectivity on UMTS networks
> Provides EDGE/GPRS/GSM data (up to 247 kbps) connectivity
> Low power dissipation for easy embedding
> Transparent handover between UMTS and GSM/E-GPRS networks
> The design Benefits from Option's extensive experience in data PC-cards
> Tested on infrastructures and networks worldwide
> Flexible driver design providing both NDIS and modem modes for easy integration into dashboard applications
> Future proofing through Flash Memory technology
> Connector for external antenna
> Connector for external SIM/UICC holder

OPTION
WIRELESS TECHNOLOGY

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HSDPA | 3G UMTS | EDGE | GPRS

SPECIFICATIONS

- HSDPA 1.8Mbps
  - UE category 12, QPSK, 1.8 Mbps peak rate
  - PS RAB (DL: up to 1.8 Mbps; UL: up to 384 kbps)
- WCDMA
  - FDD 2100 MHz
  - Power Class 3 (+24dBm)
  - 384 kbps class modem operation in both uplink and downlink
  - Supports UL and DL Compressed Modes
  - Supports Circuit and Packet-Switched Data
- E-GPRS
  - 850/900/1800/1900 MHz
  - GSM Power Class 4 (2W) for 850/900 bands, GSM
  - Power Class 1 (1W) for 1800/1900 bands
  - EDGE class E2 (+27 dBm in 850/900 bands, +26 dBm in 1800/1900 bands)
  - GPRS/EGPRS Multislot Class 10 (4 slots Rx, 2 slots Tx, 5 max active)
- GPRS/EGPRS Class B Type 1 MT
- GPRS CS1-CS4; EGPRS MCS1-MCS9
- Circuit Switched Data: 14.4 and 9.6 kbps
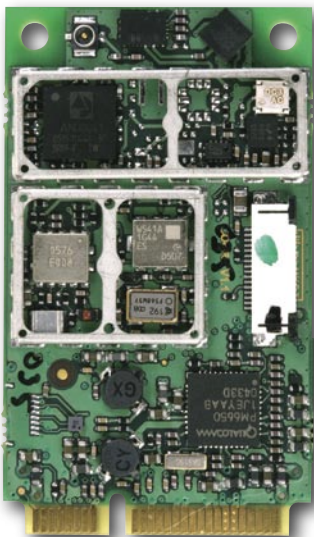
TERMINAL EQUIPMENT INTERFACES

- USB 1.1 signaling
- AT interface with standard modem emulation
- NDIS and Modem interface drivers
- NDIS required for OS compliance and future proofing (Longhorn)
- Modem interface required to allow 3rd party application support
- EAP-SIM / EAP-AKA support
- Operating Systems supported:
  - Windows 2000/XP Home/ XP Pro/ Vista
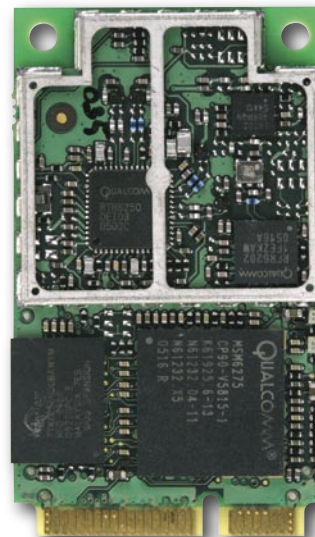 - Tablet/XP Pro/Mac OS X Tiger

REGULATORY & CERTIFICATIONS

- R&TTE, GCF for WCDMA
- R&TTE, GCF, FCC, PTCRB for EGPRS

POWER REQUIREMENTS

- Vcc 3.3V +/- 9%
- Peak Icc 2750 mA with max supply droop 50 mA
- Average Icc 1000 mA

Picture of embedded wireless module with cover shielding removed.

Picture of embedded wireless module with cover shielding removed.

As part of their continual product improvement process Option reserve the right to alter the specifications for the product detailed here.