GTM353W

PCIEXPRESS MINICARD MODULE WITH TRIPLE BAND UMTS

HSDPA | UMTS | E-GPRS

The GTM353W PCIExpress MiniCard module is providing Wireless WAN functionalities to any device with a PCIExpress Minicard slot. In particular, the GTM353W is the solution of choice for embedding 3G and Edge connectivity technology into laptop and PDA devices. It supports HSDPA 1.8 Mbps, UMTS WCDMA in the three 850/1900/2100MHz bands and GPRS/EDGE in four bands (850/900/1800/1900 MHz), thereby ensuring worldwide UMTS/HSDPA and E-GPRS operations

FEATURES

> Supports triple band UMTS and quad-band E-GPRS/GSM , enabling worldwide roaming on 2G and 3G networks
> Multimode UMTS/E-GPRS/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 E-GPRS/GPRS/GSM data (up to 247 kbps) connectivity
> Low power dissipation for easy embedding into devices
> Transparent handover between UMTS and GSM/E-GPRS networks
> Benefits from large Option 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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SPECIFICATIONS

> HSDPA/UMTS
- WCDMA 850/1900/2100 MHz
- 3GPP FDD compliant, up to 1.8Mbps Peak Rate
- UE Power Class 3 (+24 dBm)
- High Speed packet-switched data:
  › Support for UMTS QoS traffic classes
  › Support for PPP, IP transparent and non-transparent modes
- Circuit-switched data Single-RAB streaming: 64, 57.6, 28.8 and 14.4 kbps

> 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

THERMAL DISSIPATION

> 2500 mW at 70°C @ 3.3V
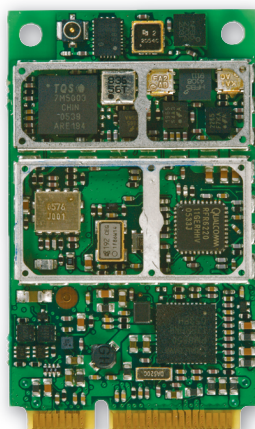> 2750 mW at 70°C @ 3.3V+8%

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
> PCM voice support on PCIE minicard interface (final pin assignment still TBD)
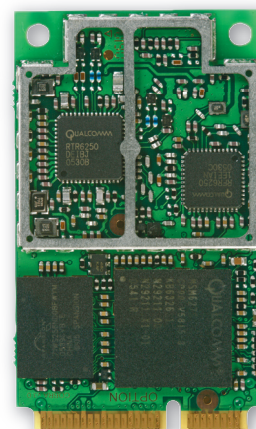
REGULATORY & CERTIFICATIONS

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

POWER REQUIREMENTS

> Vcc 3.3V +/- 8%
> Peak Icc 2750 mA with max supply drop 50 mV
> Average Icc 1000 mA

Picture of embedded wireless module with cover shielding removed.

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

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