

# Expedite® EU850D



## 7.2 Mbps HSDPA PCI Express Mini Card / Embedded Module with Integrated SIM Slot

The Expedite® EU850D PCI Express Mini Card, with an integrated SIM holder, can be embedded into laptops and other devices for 3G mobile data applications. The OEM host industrial design is free of SIM slot and wiring constraints with the EU850D. This module, powered by Qualcomm MSM6280 diversity and equalizer chipset, offers high performance to the user and operates globally on 850, 1900, and 2100 MHz bands on HSDPA and UMTS networks.

Optimized for Europe\*, the EU850D has diversity on the 850, 1900, and 2100 MHz bands on HSDPA and UMTS networks.

### Performance and Global Mobility

Today, many users take high-speed Internet access for granted in their office and home. HSDPA technology, the latest evolution of 3G WCDMA, currently provides broadband speeds up to 7.2 Mbps in the operator's network and roaming areas.† Coupled with 3G technology, the EU850D embedded in a laptop or other device provides greater mobility than WiFi networks. Laptops can be used globally and are not restricted to just WiFi networks in a home, office, hotel, or café. This module works in Europe, North America, Japan, Australia, and other regions for the supported bands†. An EU850D device becomes more like a cell phone — with data mobility similar to voice mobility.

### Network-Backward Compatible

While most 3G networks are still being rolled out, Internet connectivity need not stop at the edge of 3G coverage. EDGE provides a viable alternative to 3G for many applications, but at lower data rates. EDGE compatible, the small Expedite EU850D leverages all four GSM/GPRS network bands under FCC and CE certification. Automatic switching between GPRS/EDGE/3G networks enables your customers to work, play, and stay connected anytime, anywhere worldwide.†

### Performance When It Counts

High-efficiency compact design and advanced technologies provide consistently improved throughput performance.

### Advanced Receiver Technologies for Optimal Performance

The EU850D introduces two new advanced receiver technologies, diversity and equalizer, to ensure users get the maximum performance possible, whether in good or poor radio conditions, including when moving or inside buildings. These technologies also benefit the network operator by lowering the demands on the network while delivering higher throughput performance and effectively increasing network capacity.



\* Optimized with Receive Diversity for Europe and other regions in the world that provides UMTS and HSDPA on 2100 MHz band. Diversity is also on 850 MHz band.

† Network/Operator dependent.



### 7.2 Mbps HSDPA PCI Express Mini Card / Embedded Module with Integrated SIM Slot

#### Technology/Bands

- Tri-band HSDPA/UMTS - 850\*\*/1900/2100 MHz
- Quad-band EDGE/GPRS - 850/900/1800/1900 MHz

#### Advanced Technologies (RF Optimization and GPS Option)

- Two-channel Receiver Diversity on HSDPA/UMTS 850\*\* & 2100 MHz bands – improves performance at cell edges
- Receive Equalization – improves performance in noisy & highly mobile environments
- GPS Option†

#### Data Speeds‡

- Category 6 (3.6 Mbps); future upgradeable to HSDPA Category 8 (7.2 Mbps)
- Supports 3.6 Mbps downlink & 384 Kbps uplink
- 7.2 Mbps downlink firmware upgradeable

#### Power Class

- WCDMA 850/1900 – Power Class 3
- WCDMA 2100 – Power Class 3
- GPRS 850/900 – Power Class 4
- GPRS 1800/1900 – Power Class 1
- EDGE 850/900/1800/1900 – Power Class E2

#### Dimensions and Weight

- PCI Express Mini Card Form Factor††
- 50.8 x 29.9 x 6.4 mm (2.0 x 1.2 x 0.25 in.)
- 11.7 g (0.41 oz.)

#### Host Interface

- PCI Express Mini Card Standard Interface
- USB 2.0
- LED control
- 52-pin edge connector
- Antenna – 50 Ohm compatible

#### Power consumption

- Voltage 3.0 to 3.6 volts
- Idle & low power modes (USB Selective Suspend)
- USIM/SIM\* - 1.8 & 3.0 volts

#### Environmental

- Operating temperature: -20°C to 65°C (32°F to 149°F)
- Storage temperature: -40°C to 85°C (-22°F to 185°F)
- EMI Shielding

#### For More Information:

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[www.novatelwireless.com](http://www.novatelwireless.com)

† Requires integration with operator's network.  
†† Complies to PCI Express Mini Card Standard except for height dimension of 6.4 mm.  
‡ Network/Operator dependent.



#### Vendor Developer Kit

- Module not included; ordered separately.

#### Applications

- Internet, Intranet
- e-mail & SMS
- Connection logging
- VPN

#### MobiLink™ Connection Manager & SDK

##### API Features

- Text Messaging
  - Full SMS Client supporting 2-way SMS
  - Quick SMS e-mail feature
- Plug & Play
- Multiple Languages available
- Dialup Connection
- Signal strength
- Connection Status
- Auto-Connect
- Auto-Select Network
- Timers/Counters
  - Data call duration
  - Data byte count
- NDIS & EAP-SIM Support
- Address Book
- Network Profile
- Help Menu & Self Diagnostics
- Power Management – standby & hibernate selective suspend
- DIAG & AT Commands
- Field Test Data
- Complete Session Statistics
- SDK with Application Program Interface

#### Standards/Approvals/Certifications

- 3GPP Release 99 for GSM/GPRS
- 3GPP Release 5 for HSDPA
- FCC parts 2, 15, 22 & 24
- CE Marking
- GCF
- PTCRB
- GSM Phase 2+
- Microsoft WHQL
- IOT Compliance
- R&TTE Directive 1999/5/EC (health, safety, EMC, spectrum) Compliant
- RoHS Directive 2002/95/EC Compliant
- WEEE Directive 2002/95/EC Compliant

#### Operating Systems Supported

- Windows® Vista, XP & 2000
- Linux 2.6.16

#### Standard Package Contents

- Expedite EU850D

#### Vendor Development Kit

- Interface board
- Power supply
- USB cable
- MobiLink SDK

\* SIM card provided by operator upon service subscription.  
\*\* 850, Band 5, includes 800, Band 6 - Japan.