

# Merlin™ XU870



## 7.2 Mbps 3G HSDPA Wireless Broadband ExpressCard/34

The Merlin XU870 ExpressCard is a smaller and faster version of a PCMCIA card that uses the ExpressCard/34 form factor. This global card, tri-band HSDPA/UMTS and quad-band EDGE/GPRS, allows for mobile broadband connections up to 7.2 Mbps\*. The XU870 ExpressCard, powered by the Qualcomm MSM6280 chipset, has Mobile Receive Equalizer which minimizes radio signal interferences.

### Worldwide Mobile Broadband

Peak download speeds to 7.2 Mbps\* for web surfing, e-mail, VPNs, and more. Use in home, office, on the road – virtually anywhere for on the go mobility. Works in North America, Europe and countries around the world in supported bands.

### Small Compact Card

Uses the ExpressCard/34 form factor which is 40% smaller than a PCMCIA card and also takes advantage of the high bandwidth serial USB 2.0 interface. This 26-pin card is the newly adopted format for laptop vendors.

### High Performance Flip-up Antenna

One durable piece with an integrated, flip-up antenna provides high performance for optimal data throughput. Made from Polycarbonate-ABS blend plastic for durability and impact resistance with a die-cast yoke and stainless steel radiator.

### Easy-to-Use Connection Manager

Mobilink™ Connection Manager, in 18 languages, offers a turnkey solution with an intuitive user interface. SDK (Software Development Kit) available for integration with third party dashboards. Features include signal strength indicator, connection status, SMS, address book, NDIS (Network Driver Interface Specification) compliance and more.

### Upgradeable

Firmware upgrade for 7.2 Mbps peak downlink speed.

### Improve Coverage

An external antenna can be added to improve reception and minimize interference.

### Branding & Customization Available

Branding on ExpressCard, packaging, collateral, and software to keep the offering in sync with OEM or operator's marketing and branding strategies.



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#### Technology/Bands

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

#### Data Speeds

- Category 6 (3.6 Mbps)
- Supports 3.6 Mbps DL & 384 Kbps UL
- 7.2 Mbps DL 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

- 112 mm x 34 mm x 5.0 mm
- Antenna Radome: 19.4 mm down, 44.3 mm up
- 39 grams

#### Form Factor

- ExpressCard/34
- USIM\* card slot (card size: 25 mm x 15 mm)

#### Visual Indicator (LED)

- 5-color LED indicator for real-time service status, technology modes, and error conditions

#### Antenna

- Built-in 5 bands (integrated)
- High efficiency broadband

#### Power consumption

- Voltage 3.3 v (nominal)

#### Environmental

- Operating temperature: 0°C to 55°C (32°F to 131°F)
- Storage temperature: -20°C to 65°C (-4°F to 149°F)
- EMI Shielding

#### Applications

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

#### Text Messaging

- Full SMS Client supporting 2-way SMS
- Quick SMS e-mail feature

#### Connection Manager

- Plug & Play
- Multi-lingual (software in 18 languages)
- Dialup Connection
- Signal strength
- Connection Status
- Auto-Connect
- Auto-Select Network
- 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 for minimal integration required for third party dashboards

#### Timers/Counters

- Data call duration
- Data byte count

#### 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
- ExpressCard™ Compliant
- 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® 2000, XP & Vista-Ready
- Mac OS X 10.4 Connection Utility
- Linux 2.6

#### Minimum System Requirements

- Card Slot: ExpressCard/34/54
- Disk Drive: CD-ROM
- Hard Drive: 14 MB
- RAM: 32 MB
- Browser: Microsoft Internet Explorer 6.0 or higher

#### Standard Package Contents

- Merlin XU870 ExpressCard Modem
- CD-ROM with MobiLink Modem Connection Manager & User Guide
- Quick Start Guide
- Plastic storage case
- Retail packaging

#### Accessories

- External antenna - Hirose MS-151 connector
- Universal Card Adapter - adapts card to PCMCIA Type II form factor for laptops without an ExpressCard slot



#### For More Information:

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\*SIM card provided by operator upon service subscription.