

**ENABLER®**  
HS 3002



## HSDPA(UMTS 3G)/GSM/GPRS/EDGE Multi-Band OEM Cellular Modem

The Enabler® HS 3002 is a Qualcomm® chipset-based HSDPA (UMTS 3G) cellular module with a 100-pin Molex® I/O and Board-to-Board (B2B) RF connectors. This module will excel in applications requiring low power consumption, extended temperatures, multiple radio choices, and optional audio support. With dual-band HSDPA (UMTS 3G) and GPRS/EDGE radios available in two SKUs and optional SIM, the HS 3002 is designed to meet your global integration objectives. The HS 3002 is certified with AT&T, PTCRB, GCF, and other regulatory bodies for international use.

### A Trusted Brand Since 2005

Continuing the success of the Enabler OEM module line that's been a staple our M2M brand since its introduction in 2005, the new Enabler® HS Series maintains the core features of using industry-leading chipset manufacturers as the basis of our trusted in-house designs and then overlaying our Smart Agent with its action-based intelligence onto the final modem product. With the Enabler HS Series, we provide you with even more module options for integration into your mission-critical designs—while preserving the industry-leading intelligence and in-house expertise that's led to our iconic brand success.



### Interchangeable Technology

We've preserved the same 100-pin I/O and B2B RF connectors; a compatible x-y size and mounting; and the same firmware API, including our Smart Agent from our popular Enabler IIIG Series. Another benefit of an Enabler HS Series transition is that you can even reuse most of your valuable script features. This compatibility allows a single design and integration effort to support worldwide deployments across multiple carriers. Additionally, if you're eager to migrate from our GSM/GPRS module to a 1xRTT (CDMA2000) or HSDPA (UMTS 3G) module, we've simplified your effort with our common-by-design approach. So if you desire a longer life for your end product, or your business plans dictate a regional expansion, worldwide deployments, or carrier flexibility, we've already eased your transition and lessened your risk.

### Enhancing Integrator Success

Novatel Wireless supports module integrators by bringing an in-depth understanding of complex carrier networks and actively working with clients to achieve numerous regulatory approvals. In fact, we've taken our M2M modules through about 60 PTCRB and 10 explicit GCF certification approvals, have been a participant in the development of the GCF and PTCRB M2M approval requirements, and have expertise in nearly 20 other types of regulatory approvals. Novatel Wireless additionally can lower risk, speed time to market, and achieve cost discounts for our clients through long-standing relationships with third-party certifying labs.

### Architected for Target Applications in Global Markets

A strong differentiator of our Enabler HS Series of cellular modems is that—beyond working with world-class chipset manufacturers and integrating our actionable intelligence into our designs—we calibrate and align our hardware and low-level firmware to accommodate the needs of the target applications. So whether your battery-free telematics application needs extra low power or your fixed exterior monitoring site needs extended low temperature, we have you covered. Some key target applications include:

- Security/Safety/Alarm
- Utilities
- Transportation
- Telemetry
- AMR/AMI End Points
- Telematics
- Remote Monitor And Control (RMAC)
- mHealth



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### View Enterprise Assets As Never Before

All Novatel Wireless Enabler modems and M2M integrated devices are designed for full compatibility with our N4A™ Services Enablement Platform that includes the N4A™ Communications and Management Software (CMS) and N4A™ Device Manager, which provide accelerated device provisioning, deployment, shipping, monitoring, and tracking worldwide. Once you've experienced this level of visibility and control over your decision-clarifying assets, you'll wonder how you managed without it.

### Quality & Reliability that Keeps Selling

At Novatel Wireless we infuse quality in all we do, starting with well-defined ISO 9001 engineering processes that cross both the consumer mobile computing and M2M cellular modem teams. Our long-standing relationships with industry leaders like Qualcomm® help us to accurately and efficiently integrate chipset capabilities into our modem designs while accelerating time to market. Our modules also experience statistically low returns, while our clients rate our RMA and support processes well above industry averages in yearly customer satisfaction surveys. Those are statistics that engender customer loyalty and keep us working hard to make transitions simple and technology fresh.

### Technical Specifications

Part No.	CNN0403-11 (NA)	CNN0402-11 (ROW)
Frequency Bands (MHz)	HSDPA (UMTS 3G) 850/1900 [GPRS/EDGE 850/1900]	HSDPA (UMTS 3G) 900/2100 [GPRS/EDGE 900/1800]
Speed (Mbps)	3.6 downlink	
I/O Connector	100-pin Molex® 0.4 mm pitch Slim Stack™	
RF Connector	Board-to-Board Compressor	
Dimensions (mm)	28.0L x 27.0W x 4.5H	
Weight (g)	5.0	
SIM	Integrated micro SIM carrier or Remote 1.8/3V SIM	
I/O	8	
Operating Temperature	-30°C to +70°C	
Compliant Temperature	-20°C to +60°C	
Storage Temperature	-40°C to +85°C	
DC (V)	3.4 - 4.4	
GPS	Standalone	
Interfaces	UART (1), USB 2.0 HS	
Voice	Yes	
SMS	Text, PDU, MO/MT, Cell Broadcast	
Drivers	Linux, Windows-based USB drivers	
Certifications	FCC Parts 15, 22, 24; CE; IC (pending)	
Operator Certifications	GCF, PTCRB, AT&T (pending)	

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