SPIDER® MT

GSM/GPRS/GPS

DUAL AND QUAD–BAND MOBILE PLATFORMS

The flagship of Enfora's industry-leading portfolio of integrated Mobile Tracking products, the MT series of platforms connect the world's leading companies to their valuable mobile assets.

The certified dual & quad-band integrated devices are optimized for today's increasing demand for vehicle recovery, fuel efficient fleet operations, driver and vehicle profiling and interactive communications. Providing complete GSM/GPRS communications Enfora helps you track and monitor vehicles from the family car to the largest fleet of commercial vehicles.

With superior GPS sensitivity, enhanced business intelligence logic provided by the programmable rules engine, polygon Geo-Fencing, integrated SMS commands, messaging and much more, the units are designed to be easily deployed and provisioned supplying critical information for the most demanding fleet operator, the buy-here pay-here dealers to the pay as you go insurance company.

Enfora's N4A intelligent mobile tracking devices feature superior performance in a small package for ultimate flexibility. Coupled with the robust N4A Communications and Management platform, devices can be provisioned, monitored and reconfigured remotely, most anywhere in the world. Driven by the N4A Services Architecture, Enfora delivers a flexible, modular architecture for fast wireless asset tracking, solutions development and deployment. Keeping you Connected to your Assets, Anywhere, Anytime.

N4A Spider MT Device Benefits

- Support for Garmin's Fleet Management Interface (FMI) (optional)

- Flexible customization through built-in programmable rules engine & control automation capabilities

- Wireless data and voice port available on MT-Gμ voice communication

- Polygon geo-fencing & GPIO's

- Internal antennas on the Dual-Band MT-Gi for economical installation and serviceability

- Auto-registration on power up

- Internal battery back-up on the MT-Gμ allows for continued operation when main input power is removed

- FOTA Enabled for remote upgrades

- Integrated SMS for commands & messages

Superior Performance, unprecedented reliability – Delivered through the N4A Spider MT Family

enfora®
Enable Information Anywhere

www.enfora.com

	SPIDER MT-Gi (N.A.)	SPIDER MT-Gi (ROW)	SPIDER MT-Gμ
MODEL NUMBER	GSM2354	GSM2356	GSM2358

CHARACTERISTICS

Dimensions (L x W x H)	65 x 61 x 26 mm		
Housing	Rugged plastic enclosure, V_0 fire rated		

RADIO PERFORMANCE

Frequency (MHz)	850/1900	900/1800	850/900/1800/1900
Transmit power	Class 4 (2W@850 MHz)	Class 4 (2W@900 MHz)	Class 4 (2W@850/900 MHz)
	Class 1 (1W@1900 MHz)	Class 1 (1W@1800 MHz)	Class 1 (1W@1800/1900 MHz))

PACKET DATA

Mode	Class B, Multislot 2		Class B, Multislot 10
Protocol	GSM/GPRS Rel 97		GSM/GPRS Rel 97 AMR Rel 99
Coding schemes	CS1-CS4		CS1-CS4
Packet channel	PBCCH/PCCCH		PBCCH/PCCCH

GSM FUNCTIONALITY

GSM SMS	Text, PDU, MO/MT, Cell Broadcast		Text, PDU, MO/MT, Cell Broadcast
Voice	N/A		AMR, EFR, FR & HR
CS Data	N/A		

GPS FUNCTIONALITY

Connector	N/A		FAKRA
Antenna	Internal Antenna		
GPS Protocols	NMEA, Binary		NMEA, Binary
Buffered GPS message feature	Yes		Yes

OVER-THE-AIR COMMANDS

FOTA, I/O control, GPS TX interval, binary reporting, timed reporting, alarm reporting, maximum speed exceeded, status change reports, GPS content, event reporting, distance reporting, geo-fencing and virtual odometer, optional Garmin FMI

SIM CARD/INTERFACE/I/O

SIM Access	External		External
Audio	N/A		2.5 mm headset
GSM Antenna	Internal Antenna		FAKRA (Bordeaux Violet)
I/O Connector	8-pin Molex		8-pin Molex
	2 GPIOs: Input 0-40V, Output 0-3V		2 GPIOs: Input 0-40V, Output 0-3V
	1 Current Sink Output 0-40V		1 Output 0-40V
Serial Data I/O	Yes		Yes
Ignition Sense	Yes		Yes

INTERFACE

Host Protocols	AT commands, UDP API, CMUX, PPP, FOTA		AT commands, UDP API, CMUX, PPP
Internal Protocols	PPP, UDP API, TCP API, UDP PAD, TCP PAD		PPP, UDP API, TCP API, UDP PAD, TCP PAD
API Control/Status	AT commands, UDP API, TCP API, AT commands over SMS		AT commands, UDP API, TCP API, AT commands over SMS

ENVIRONMENT

Operating	–30ºC to 85ºC		
Storage	–40ºC to 85ºC		
Humidity	Up to 95% non-condensing		
Vibration	In accordance with SAE J1211		

POWER

DC voltage	9 - 40 V		9 - 40 V
			Rechargeable Lithium-Ion battery

GSM operating power (typical) @ 12 VDC

Band	Mode	Avg (mA)	Peak (A)
GSM 850/900	1TX/1RX	190	1.6
GSM 1800/1900	1TX/1RX	170	1.3
	Idle (GPS off)	< 15	
	Idle (GPS on)	< 50	

Band	Mode	Avg (mA)	Peak (A)
GSM 850/900	1TX/1RX	175	1.6
GSM1900/1800	1TX/1RX	160	1.3
	Idle (GPS off)	< 15	
	Idle (GPS on)	< 50	

CERTIFICATIONS

FCC	Parts 15, 22 & 24	N/A	Parts 15, 22 & 24
GCF	N/A	Version 3.37.1	Version 3.37.1
PTCRB	Version 5.2.0	N/A	Version 5.2.0
CE Mark	N/A	Yes	Yes
RoHS Compliant	Yes	Yes	Yes
Emark	N/A	Yes	Yes
Industry Canada	Yes	N/A	Yes
AT&T	Yes	N/A	Yes

PART NUMBERS

	GSM2354-01	GSM2356-01	GSM2358-00 (with battery)
			GSM2358-01 (without battery)