

## ENGenesis™ - NewsNode

### ENGenesis™ - "ENG with the LTE IP Edge"

ENGenesis™ is the next generation patented Electronic Newsgathering (ENG) system operating within licensed BAS channels. It enables the creation of your own private LTE IP network between your mobile units and your station. It offers the capability to use multiple ENG mobile units within the same ENG channel and multiple video feeds from the same mobile unit. The LTE IP Network provides a mobile network extension to your station with bi-directional communications, IFB, teleprompter, and intercom. ENG mobile units can seamlessly travel between Rx sites without losing data connectivity or requiring the utilization of antenna management from an operator. "It Just Works!"

### NewsNode

The NewsNode is ENGenesis's user equipment (UE) to support a rack mount vehicle application. It supports a simplistic front panel design for ease of use such that an inexperienced ENG operator only has to turn on the main vehicle power to enable an ENG microwave shot. It includes integrated independent front panel monitors for direct return video display from the studio and local control. It also includes front panel IFB audio MIC support and easy access push to talk (PTT) control. The NewsNode provides a direct Ethernet and DC interface for the Mobile RF LTE UE unit.

### ENGenesis™ - Network Features

- **FCC Part 74 certified for bi-directional channel connectivity**
- **Extends your studio network to the field thru your UE assets**
- **Supports low delay IFB connectivity**
- **Supports full mobility and handovers between Rx points – no antenna pointing required**
- **No re-occurring cellular data charges – reduces cellular bonding data charges**
- **Support for UE asset management tracking with LTEvue UI platform**
- **Supports IP audio intercom between UE assets**

### NewsNode - Features

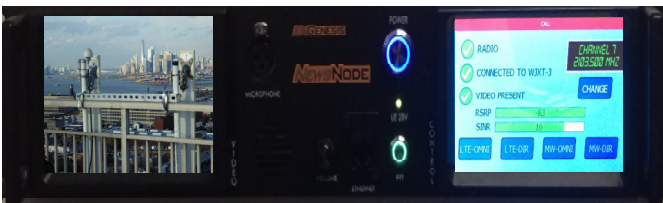
- **Low delay – H.265/H.264 video encoding/decoding**
- **Integrated single/dual channel encoding or decoding**
- **IP layer adaptive bit rate network encoding**
- **GPS connection for vehicle asset tracking and management**
- **Front panel IFB MIC support**
- **Front panel return video display**
- **Front panel PTT audio support**
- **Front panel Ethernet connection – direct network access**

For more info visit [LTE4ENG.COM](http://LTE4ENG.COM)

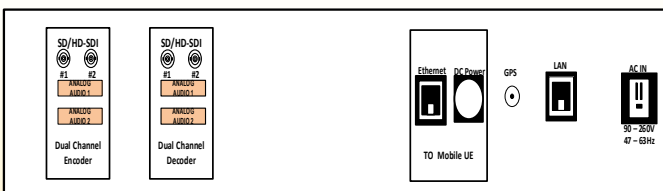
## ENGenesis™ - NewsNode & Mobile RF Unit Specifications

Specification	NewsNode	Specification	Mobile RF Unit
Rack Size	2RU	Operating Frequency	2GHz BAS Band
Mechanical	16.5" x 17.25" x 3.5"	Channel BW	5,10,20 MHz
Video Compression	(2) Channel H.265/H.264 – Encoding/Decoding	Duplex Mode	Time Division Duplex (TDD)
Video Inputs	(2)- HD/SDI-SDI – 75 Ohms	LTE Compliance	3GPP – Release 9
Video Outputs	(2) – HD/SDI-SDI – 75 Ohms	Transmit Power	Up to +37dBm, adaptive power control
Audio Inputs	Embedded & Analog	UE Compliance	LTE- 3GPP- Release 9
Ext. GPS Support	Rear panel SMA Female	RF Connections	(2) – type N RF ports – TX/RX, RX
DC Output	+28V to RF UE Unit	Host Interface	100BaseT over shielded RJ-45 socket
AC Input	Rear panel – 110VAC – 240VAC	Network Authentication	USIM 3.0V
LAN Network Connections	Front and Rear Panel – RJ-45	Mechanical	11.8" x 9.8" x 5.8"
UE Connections	Rear Panel – DC (Multi Pin) & Ethernet RJ-45	Environmental	IP67 Enclosure
Temperature Range	0° to +50° C	Temperature Range	-10° to +50° C

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### NewsNode Rear Panel



### Mobile RF Unit

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