

LTE CORE

ANALOGUE
Basestation

DMR
Basestation

e-ABS

Analogue - 4G Linked

e-ABS is an Analogue basestation directly connected to the LTE Evolved Packet Core [EPC] Network. Every e-ABS basestation includes the LTE protocol S1 connection thereby avoiding any black box or gateway interface.

LTE EPC - Inter System Interface

The IP based core transmission network is the most powerful mobile communications transmission network available today. The EPC is an open internationally standardised network. Integration of the e-ABS Analogue basestation to the LTE Core allows Analogue and LTE cell equipment to be inter-connected over a single IP based, fully distributed network.

e-ABS Basestation

The e-ABS basestation allows traditional analogue technology to be integrated over a single IP network with other telecommunications standards. The system allows direct communications between standard 4G LTE subscribers and Analogue subscribers. The e-ABS system management automatically manages the calls between different technology subscribers, supporting individual and group calls.

Integration with Other Technologies

Etelm has recognised the power of 4G LTE and in conjunction with other manufacturers has released a range of 4G Linked products integrating other technologies over a single IP based network. This allows users to merge the benefits of different technologies and allows group and individual calls between different technology subscribers.



Technical Specification

Size and weight	TMO mode
Rack 6U	S1 interface (IP based)
Dimensions: 482.6 x 250 x 112 mm	Bearer management
Weight: 10kg	SIP signalling
Frequency bands	OAM connections (7 types)
146/174 MHz	Stand alone mode
450/470 MHz	Automatic switching without link
Frequency channels	Local access
Spacing 25 KHz, 12.5 KHz	Analog Tx and Rx access
In steps of 6.25 KHz	Functions
Normal or reverse duplex	Open channel repeater
Power	CTSS as option
48Vdc (external 110/220Vac/48Vdc converter as option)	Direct access from 4G core to the radio frequency
350 Watts	Programmable access from radio to 4G core
Environmental	Synchronization
Operating temperature: 5/55°C	Local ultrastable oscillator
Extreme temperature: - 30/+60°C	GPS synchronization (optional module)
Transmitter	Access
RF power: 40 Watts	Any connector located in the bottom
Internal circulator for protection	Coaxial access: Tx (N), Rx (SMA), GPS(SMA)
Noise and spurious: < -36 dBm	4 inputs, 4 outputs logical access
Receiver	Local AF access (microphone/loudspeaker)
Static sensitivity: -121 dBm	Maintenance
Dynamic sensitivity: -118 dBm	5 front panel LED
C/I: 12 dB	Software loaded on SMD card
Reboot	Internal temperature sensors
Reboot time < 2 minutes	

