

QuicLINK™

Compact 3G Communication System
for National Security and Public Safety



Whatever the situation, public safety and defense organizations need to be in contact with all their deployed units, as well as command and control entities. It is vital to have secure and effective communications to ensure full situational awareness in real-time.

To coordinate operations in remote areas, or in the wake of a large-scale disaster that has incapacitated communications, a reliable

alternative system is necessary. Such a system must be quick and easy to install and offer a high level of functionality.

With the successful global deployment of Wideband Code Division Multiple Access (WCDMA) technology, Ericsson has taken a further step in introducing a completely transportable third-generation (3G) network in a containerized package for flexible broadband communication.

QuicLINK™ offers:

- Compact, lightweight, portable and easy-to-install vehicle-mounted units
- No field configuration required, one-button operation and easy maintenance
- Scalable 3G communication network, enabling situation awareness for all personnel
- IP connectivity, mobile stand-alone operation with the capability to connect legacy networks
- Public telecom voice and video with high-speed data capability
- Compatible with any standard WCDMA handset or PC-card

Service description

QuicLINK™ provides WCDMA network functionality, an integrated Radio Access Network (RAN) and mobile Core Network (CN), in portable units. The QuicLINK™ units communicate via the IP Wide Area Network (WAN). The system is capable of connecting with the Public Switching Telephony Network (PSTN) and a Private Automatic Branch Exchange (PABX).

The system configuration can be modified through a user-friendly HTTP interface. Subscriber profiles are also loaded via the HTTP interface. Following configuration, connections are made to AC power, RF antenna, GPS receiver and WAN router. WCDMA is based on spread-spectrum technology and is characterized by a high degree of resilience against electronic warfare assaults. If required, QuicLINK™ is capable of transporting encrypted traffic for additional levels of secure communication.

SIM cards, compatible with any handset, ensure that only your personnel have access to the network. Since QuicLINK™ is based on Commercial Off The Shelf (COTS) products, it is upgradeable to the latest cellular technology advances. This effectively future-proofs the QuicLINK™ lifecycle.

Key features

- QuicLINK™ has the High Speed Data Access (HSPA) capability and allows rates of 4-5 Mbps downlink and 1-2 Mbps uplink. HSPA technology can allow data rates of up to 14.4 Mbps downlink and 5.8 Mbps uplink.
- Voice calls support mobile-to-mobile and land-to-mobile
- Dedicated packet data calls up to 384Kbps
- Group calls enable communication for up to 10 users
- Voice mail storage and retrieval
- Short Message Service
- Autonomous operation if the connection is lost to the external network or other QuicLINK™ system
- Self Configuring Network allows two to 10 units to form a network without manual intervention
- Self Healing allows a QuicLINK™ system to recover operation automatically
- Initial configuration of user and QuicLINK™ network in 30 minutes
- Operational in a few minutes at +4°C (39°F)
- Additional features according to 3GPP standard (i.e. call waiting, call hold and three party calls).

Figure and facts:

General		Portable	Vehicle Mounted
Dimensions		Core Unit: 762 mm x 571mm x 504mm 30" x 22.5" x 20" Radio Unit: 762 mm x 571 mm x 371 mm 30" x 22.5" x 14.6"	Standard 19" Rack 9U High x 16" Deep (plus 2" cable bend radius in front)
Weight		Core Unit : 45.45 kg Radio Unit : 45.45 kg Core Unit : 100 lbs Radio Unit : 100 lbs	40.8 kg 89.7 lbs
Capacity	Sector Carrier RF output power (W) Subscriber data base Voice (AMR) 64 kbps packet data calls HSPA active users Busy hour call attempts Busy Hour SMS originations/deliveries Voice mail per user	1 1 20 50 000 70 7 32 2 100 5000 10	1 1 20 50 000 70 7 32 2 100 5000 10
Frequency band	(MHz)	WCDMA 2100, 1900, 1700/1800, 1700/2100, 850FDD BAND I, II, III, IV, V AND IX	WCDMA 2100, 1900, 1700/1800, 1700/2100, 850FDD BAND I, II, III, IV, V AND IX
Power	Voltage Range Frequency range AC input power	100-250VAC 50-60Hz 900W	100-250VAC 50-60Hz 810W
Environmental specification	Normal operating temperature Storage temperature Operating relative humidity Altitude	-40C to +56C (-40F to 131F) -40C to +70C (-40F to 158F) 5%-95% Up to 3 000m (10 000 feet)	+5C to +50C (41F to 122F) -40C to +70C (-40F to 158F) 5%-95% Up to 3 000m (10 000 feet)
Transmission interfaces	PSTN/PABX interfaces IP interfaces	2 E1 or 2 T1 Gigabit Ethernet	2 E1 or 2 T1 Gigabit Ethernet
External interfaces	AC power GPS antenna E1/T1 Ethernet	IEC 320 RJ48 RJ48 RJ48	IEC 320 RJ48 RJ48 RJ48