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The [Ericsson W25](#) is available here. Call 954-683-3426.

Cellular 3G Internet and Voice for Fixed/Land/Mobile Applications

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Image courtesy of <http://freefoto.com>



Ericsson W25 GSM/UMTS/HSDPA 2G/2.5G/3G Voice + Internet (shown here with a Panasonic Cordless Phone attached)

You often hear things like “Rapid Wireless WAN Deployment Lowers Costs at Construction Sites”. Many construction projects are in remote areas where getting regular land line based Internet and Voice access installed is difficult, time consuming, and expensive. If such a site were in range of Cellular Towers providing 2G, 2.5G, and 3G Internet and Voice Cellular services then those difficulties disappear rapidly.

Often a 3G (backward compatible to 2G and 2.5G) Fixed Cellular Terminal (or Voice and Internet Router as I call it) can be installed and activated in one day. If the signal strength is good enough it may be possible to use the included small antenna on a unit such as the Ericsson W25. If you need to increase the signal bars on the unit – it is also possible to connect External Cellular Antennas to the unit. On yachts we often install Omni-directional antennas because boats move and you never know which way they are going to be pointed. On land you may not have that problem, but you also might not know where the cellular tower or towers are located. So you could push up an Omni antenna at a site on land as well. Directional antennas for cellular are also available but you’ve got to be pretty patient in installing them and aim them for the best signal. Not something that you usually want to do for temporary installations.

Some construction projects move across a larger geographic area as the project progresses and it’s often nice to be able to carry the Internet along with you – and bring it up to operational status rapidly. That way you can get back to the business of communicating with suppliers and vendors via the Internet, as well as having cellular voice to allow calls to and from the current location.

For motor vehicles used on remote sites or construction sites it may be useful to install a 3G (backward compatible to 2G and 2.5G) Fixed Cellular Terminal (or Voice and Internet Router as I call it) unit such as the Ericsson W25 in the vehicle itself. The unit can run on 10 – 28 Volts DC and can have automobile type of cellular antennas connected to it. The unit lights up an area around the vehicle with WiFi for Laptop Computers so that more than one person can get online. You can also plug in normal analog telephone gear such as Cordless Phones and use the unit for voice communications via cellular in the area around the vehicle. It might be a little tricky getting telephone gear powered – if they require an AC/DC adaptor – but a lot of gear runs on 12v DC anyway or you can get an adaptor that will provide the correct voltage.

So, Fixed Cellular Terminals like the W25 can be very helpful in land-based mobile (motor vehicle) use as well as temporary or permanent work sites – to rapidly deploy both Fast Internet as well as Voice Telephone via Cellular Service.



Image courtesy of <http://freefoto.com>

Bring your office with you – rapidly deploy a “Field Office”

Some possible applications are...

- Construction Sites / Isolated – Remote Sites
- Ferry boats, Dredges, and other Marine Craft
- Special Events Sites
- Law Enforcement
- Geology and Forestry
- Airports / Aviation
- Pipelines / Oil and Gas Industry
- Utilities and Infrastructure Industry
- Parks and Recreation
- Vacation Homes / Homes on Remote / Barriers – Islands
- ... (Insert your own here!)

Some technology explanations... The Ericsson W25 uses GSM and newer UMTS Cellular Networks such as AT&T and T Mobile in the U.S. which provide voice and varying speeds of Internet Access (depending on how “upgraded” they are.)

2G is GPRS Internet which is about like Dial-Up 56K Internet

2.5G is used by some to describe EDGE which is around double the speed if Dial-Up Internet.

3G is many times faster than that and describes UMTS and High Speed Packet Access (HSPA) networks.

- You can find 2G, 2.5G, and 3G technical explanations on <http://en.wikipedia.org>.
- If anyone needs help with External Antennas, Coax Cables, and Adaptors for Ericsson W25 – please contact me.

Thanks! And I hope this has been interesting and informative.

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Thank You for Visiting.

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