



NW-4G LTE Modem

Rise above the 2G/3G sunset by replacing your Motorola G24 modem without losing your legacy system.

Between 2020 and 2025 most carriers will no longer support 2G and 3G connectivity, requiring companies to invest in system upgrades. NeuronicWorks Inc. has created the NW 4G LTE Modem Board to perfectly match your current INIT (Innovations in Transportation Inc.) system and preserve your legacy system.

OUR PRODUCT

NW-4G LTE is a cellular communication modem specifically designed for the public transit industry to replace the Motorola G-series GSM modem. The board mechanically and electrically fits INIT solutions for buses and bus station signs.

BENEFITS

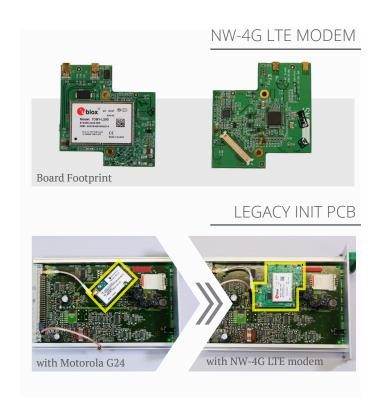
Adopting the NW-4G LTE modem helps you:

- Preserve your existing legacy system and extend its life.
- Save costs associated with acquiring, testing and integrating a new system.
- Maintain your systems and only update the cellular connectivity.

OUR SERVICE

Our services include:

- Further customization if needed
- System integration
- Firmware updates



Stay ahead of the 2G and 3G network sunset. Contact us today!

Titu Botos, CEO tbotos@neuronicworks.com 1-647-637-4364





TECHNICAL SPECIFICATIONS

NW-4G LTE Modem

Product No.: NW-16	6-01
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Cellular communication	4G LTE CAT4, fallback to 3G UMTS/DC-HSPA+ and 2G GSM/(E)GPRS
4G LTE operating bands	2, 4, 5, 7, 17 (N. America) BW 1.4 - 20 MHz, MIMO 2x2, Rx diversity
3G UMTS/DC-HSPA+ bands (in MHz)	850/900/1700/1900/2100
2G GSM bands (in MHz)	850/900/1800/1900, 42 Mbit/s downlink, 5.76 Mbit/s uplink
Certifications and approvals	PTCRB, GCF, FCC, ISED, RED, AT&T, Anatel, Rogers (Canada), Verizon, T-Mobile
Cellular communication module	U-Blox TOBY-L2
UART serial port	Configuration, control and data transfer by AT messages
USB 2.0 port	Optional for AT messagesModule firmware update
Commands	Mirrors selected commands of Motorola G-series GSM modems
SIM	Capable of 1.8V and 3.3V signalling
Interface connector	Molex 53748-0708, same as in the original G24 modem
RF Antenna ports	Two MMCX to support LTE MIMO and LTE/UMTS antenna diversity
Normal operating voltage range	+3.4V to +4.35V
Operating temperature range	-20°C to +60°C
Mechanical shock and vibrations	Per SAE/USCAR-2 Revision 6,Section 5.4.6 Per IEC 60068-2
MTBF	938022 hrs at 40°C, per stress method of TELCORDIA SR-332- ISSUE 3

Additional Requirements	Second LTE antenna
	LTE SIM Card from the Network Carrier
	The 2G/3G APN on the CopilotPC changed to an APN on LTE network

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NW-4G LTE is a Canadian product made by NeuronicWorks Inc., engineering design company specialized in custom electronic solutions.

