

communication options

Wi-Fi, Hardwire, and Cellular are the standard options for EdgeX LED controllers. Customers may purchase their own data or through EdgeX as we are partnered with all major carriers to provide 4G data.

We have 5 communication options:

- AP Wi-Fi (default)
- Wi-Fi STA (connect an existing local Wi-Fi with internet to the sign controller)
- Hardwire (Ethernet port of sign controller directly into computer or internet router)
- Cellular connection (4G router inside Electrical box, data/sim, and a cloud account)
- Extender or Wireless bridge (Extend signs Wi-Fi signal or wireless bridge with one extender at the sign and one on their building)



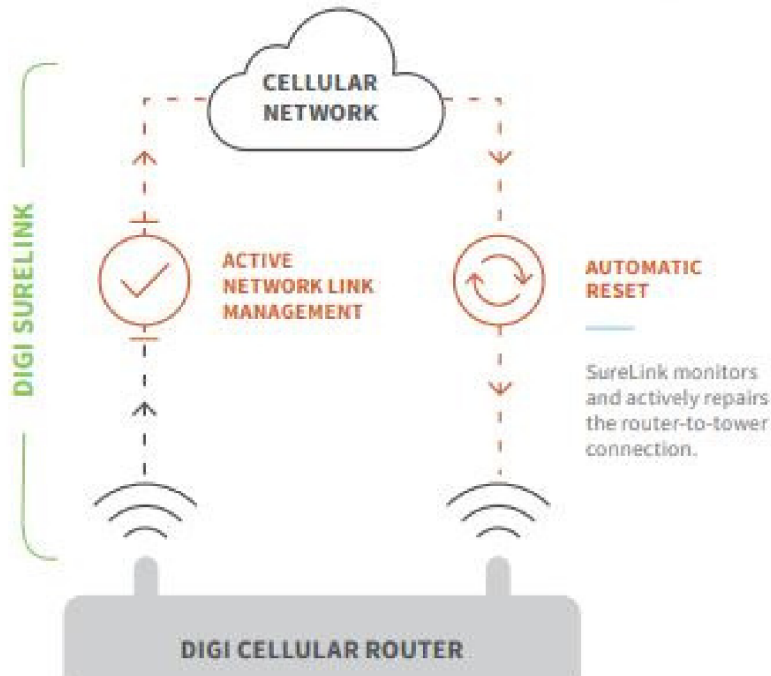
Benefits of 4G cellular communication:

- Persistent network connections ensuring rapid, always-on communications.
- Compact and economical connectivity solution with industrial feature set for public and private cellular networks. Rugged, reliable, cost-effective connectivity for critical industrial applications
- Redundant connectivity with dual SIMs and SureLink®. Two sim cards in each modem to ensure you're always on, connecting, and communicating with your display.
- TrustFence® for device security, device identity, and data privacy.
- EdgeX Remote Manager® platform. Hands-on approach, keeping tabs on device health and connectivity. We are notified in advance if your connection goes out and can evaluate, update and configure before you ever notice!
- Our cellular routers are full-featured cellular routers built for trouble-free reliability over a long service life. Its flexible power and connectivity options make it a versatile and cost-effective choice for industrial, digital signage, ATMs, lottery terminals, kiosks and other unattended retail applications that need to provide secure transactions over public and private cellular networks. Can operate on public and private LTE networks, with features to assist in network control and management:
 - Dual SIMs for cellular failover connectivity, VLAN support, load balancing between cellular and Ethernet WANs, dual APNs and configurable APN search.
 - Features one Ethernet port and one RJ-45 serial port supporting both RS-232 and RS-485.
 - In the event of an interruption to your primary network connection, Digi RM also provides secure out-of-band management of edge devices via Digi IX10's serial port and command-line interface.
 - Digi IX10 offers the convenience of a global SKU for simplified global distribution and deployment, as well as cost-optimized SKUs for North America, including a CBRS-only SKU.

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FEATURES/BENEFITS:

Always-on connections

- Rapid on-demand communications
- Maximizes uptime across cellular networks
- User-configurable control for optimum performance

Inactivity timer

- Ensures PPP connection is always available
- Will not incur additional charges on most wireless networks
- Device initiated

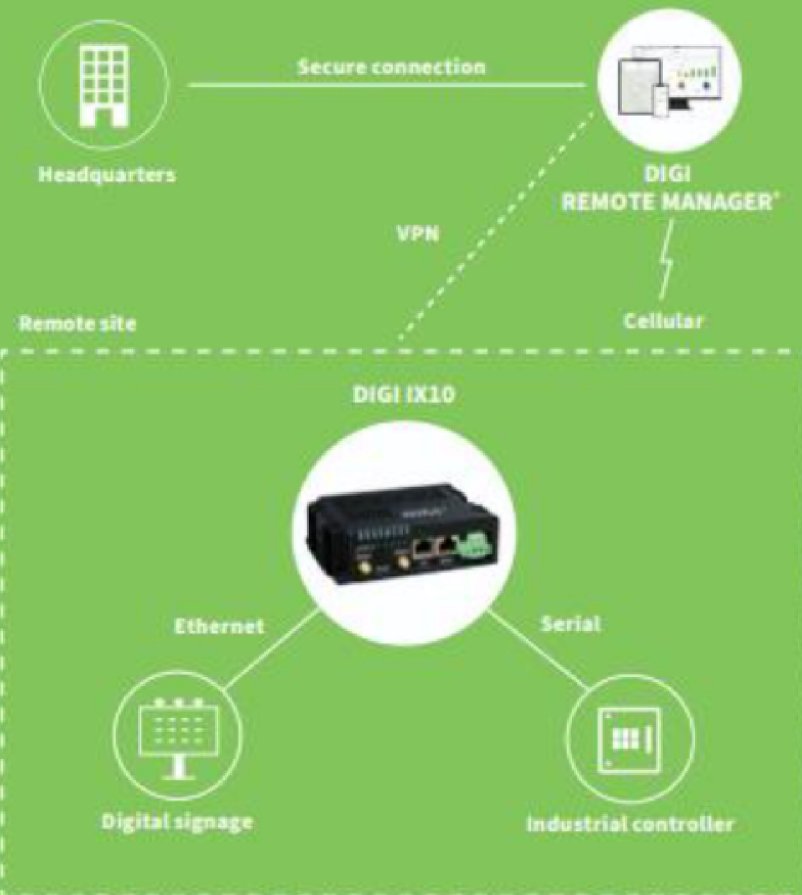
Keep-alive messages

- Small device-initiated or Digi remote management software-initiated packets allow connection to stay up

Link integrity monitoring

- Test options include: Ping, TCP Connection and DNS Lookup
- Ensures two-way communication is working over WAN
- Test at either regular intervals, or only when connection is idle

APPLICATION EXAMPLE



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