

**Wireless I/O Concentration  
using SCADALink DC100 and SMX-900**

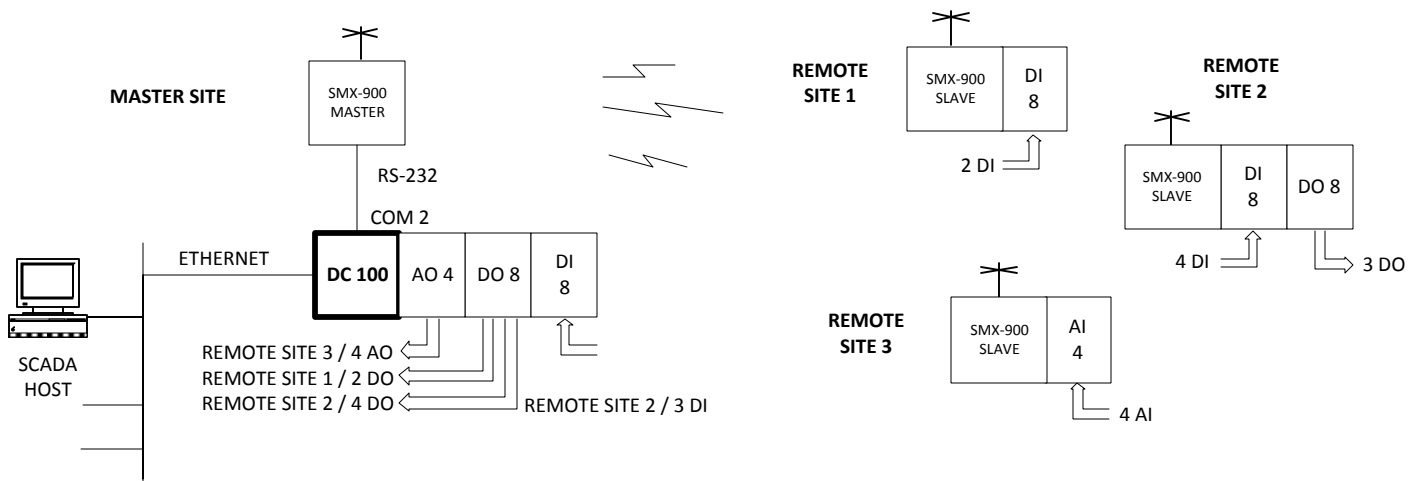
The SCADALink DC100, SMX-900 900Mhz Spread Spectrum radiomodem and modular I/O Modules can be used in a wireless I/O Concentration system.



Up to 8 I/O modules can be connected to a single DC100 or SMX-900 with a range of I/O module types:

- DI
- DO
- AI
- AO
- Combo I/O

DC100 I/O systems can be used for Point-to-Multipoint I/O Telemetry to concentrate remote data locally, enable a SCADA Host to poll data from remote I/O, route data in complex ways or all of the above.



**Figure 1: DC100 WIRELESS I/O CONCENTRATION SYSTEM**

Figure 1 above shows a multiuse DC100 wireless I/O Concentration system consisting of two functions:

- The DC100 acts as a Point-to-Multipoint I/O concentrator, making I/O from a number of remote sites available at the Master site. The SCADALink SMX-900 Spread Spectrum radio is used to communicate to remote sites. SMX-900 system integration is simplified by having the same 5 pin I/O module bus interface as the DC100.
- The SCADA Host can separately poll and monitor remote I/O data.