ProSoft® TECHNOLOGY

DATASHEET

Micro800 SMS Plug-in Module for GSM Networks
ILX800-SMSG

The ProSoft Technology SMS Plug-in Module adds bi-directional SMS text messaging capability to the Allen-Bradley Micro820, Micro830, and Micro850 controllers. Operating over the GSM cellular network, the plug-in module provides a cost- effective and secure method for OEMs to add remote communication features using cellular phones as the user interface to their machines and systems. Applications include remote alarming, environmental/energy monitoring, data collection, machine condition, inventory status alerts and production counts.

The SMS plug-in is activated by installing a standard GSM Voice/SMS SIM card (contact your local GSM cellular provider for plan options and costs). After activation it will associate to the local provider tower and enable bi-directional text messaging between the controller and remote cell phones. Because the module uses SMS, there is no need for costly cellular data plans.

The SMS Plug-in snaps into an open slot in the front of the controller. The controller provides power and all communications are over the backplane. A sample CCW program is available at no additional cost with plug-in function block drivers and a sample program provided in Structured Text, Ladder and Function Block languages. Programmers may use these sample programs for creating their own projects for message sending, receiving, alarming and machine status.

The front mounted coax connector allows for either a direct-mounted antenna or externally mounted antenna (installed outside the panel or cabinet for better cellular reception). Antennas are not included and must be ordered separately.

Features	Benefits
Adds bi-directional SMS text messaging to Micro820, Micro830, and Micro850 controllers	♦ Improves OEM machine and system competitiveness with cost-effective and tailored remote communications ♦ Adds significant features such as remote alarming, environmental/energy monitoring, data collection, machine condition, inventory status alerts and production counts
Compatible with GSM cellular networks worldwide using secure Short Message Service (SMS) with whitelist option	♦ Deploy the plug-in module wherever it is needed worldwide (pending country approvals) over the GSM cellular network ♦ Highly secure using SMS network completely isolated from the end user IT network ♦ Whitelist phone number option sets a designated list of allowed incoming originator numbers, thus securing access to only a few designated users
Pre-programmed CCW Function Block drivers and sample program included	♦ Shortens development and testing time using industry standard programming languages (Ladder Logic, Structured Text and Function Block)
External antennas supported	♦ External antenna mounting ensures strong and reliable cellular network connections

Radio Specifications

Cellular Technology	GSM (SMS Text Messaging)
Bands	• 850 MHz
	• 900 MHz
	• 1800 MHz
	• 1900 MHz
RF Power	• 2 W at 850/900 MHz
	• 1 W at 1800/1900 MHz
RF Sensitivity	• -107 dBm at 850/900 MHz
	• -106 dBm at 1800/1900 MHz

Hardware Specifications

Enclosure	Micro800 Plug-in Module
Antenna Ports	(1) RP-SMA connector
Weight	Less than 1 lb (0.45 kg)
Operating Temperature	-4°F to 149°F (–20°C to +65°C)
Humidity	Up to 100% RH, with no condensation
Vibration	IEC 60068-2-6 (20 g, 3-axis)
Shock	IEC 60068-2-27 (5 g, 10 Hz to 150 Hz)
Backplane Power	• 3.3 VDC at 60 mA (max current draw)
	• 24 VDC at 60 mA (max current draw)

Agency Approvals & Certifications

ATEX Zone 2
CB Safety
CE/ETSI
FCC/IC
PTCRB
UL/cUL Class 1, Division 2

Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

Micro800 SMS Plug-in Module for GSM Networks

ILX800-SMSG

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:
www.prosoft-technology.com
and select *Where to Buy* from the menu.