CF-MIU Edge Device

Take Your Smart Factory to the Next Level

Smart Factory

The concept of a “Smart Factory” has become a reality for manufacturers. In today’s Industry 4.0 world it is critical that we have a system that can capture more information, faster.

With our Machine Interface Unit (MIU) you can collect machine and process data in real-time and connect to virtually any machine, without having to rely on equipment that is OPC compliant.

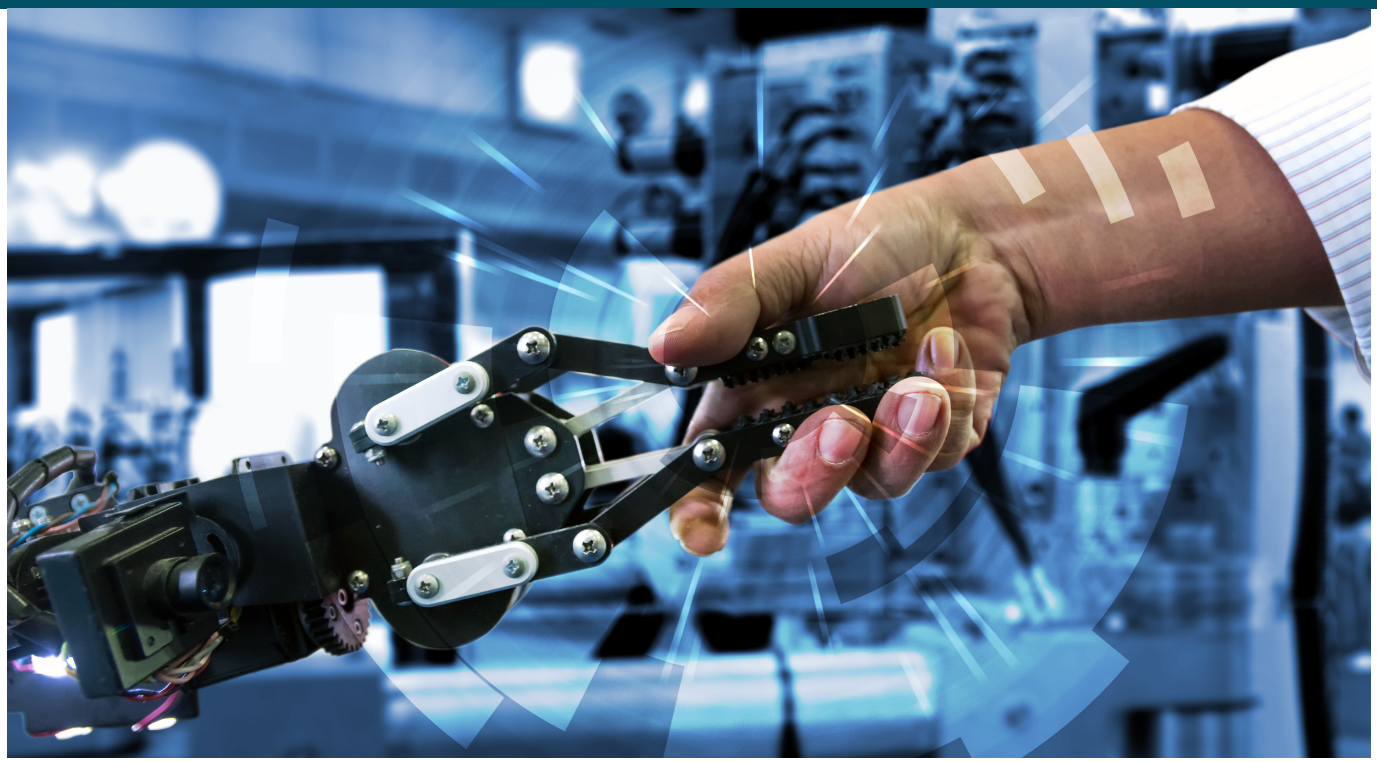
The Advanced MES Connected Factory Machine Interface Unit (CF-MIU) is an industrial-strength data collection device conceived, developed, and manufactured by Epicor, and was designed along the lines of a SCADA (Supervisory Control and Data Acquisition) system. The term SCADA generally refers to a system that monitors machines, groups of machines, or large cells of manufacturing equipment.
Much of the control is performed automatically by the MIU, however, there are host control functions that permit overriding this autonomous control through supervisory actions or intervention. For example, the MIU can control the output reject chute based upon various conditions and processes.
The MIU is basically ensuring that every part is manufactured according to engineering specs provided at the host. Its main purpose is to collect production and process information from the manufacturing machine, store, and transmit that data in real-time to the server computer.

The MIU has the ability to interface with non-OPC PLCs on the factory floor as well as read its own internal set of analog and digital inputs. The data acquisition begins here through meter readings, level indicators, pressure and temperature status readings, etc., which are then forwarded to the SCADA engine on the MIU. Data is then compiled, formatted, various reduction analysis equations are executed, and outputs are engaged if needed. In real-time, the operator can make supervisory decisions to adjust or override normal process and procedural functions.

Advanced MES

Benefits

- Continues to collect data during network outages
- Connects to any machine
- Control your machine when there are process violations detected
- Sample at 2000 per second



The new CF-MIU takes advantage of the latest technology in computer hardware design and offers advancements from almost every standpoint that allow you to connect your factory floor like never before. Instead of soldering input boards onto the motherboard the new MIU uses plug-n-play input boards that allow the MIU to grow as your needs change. Any interruption in network service is covered by a much larger cache that takes us from storing hours of data to days. 2 USB ports are available for remote network connections such as for a mouse or a keyboard.