

Ultimate Weigh Belt Application

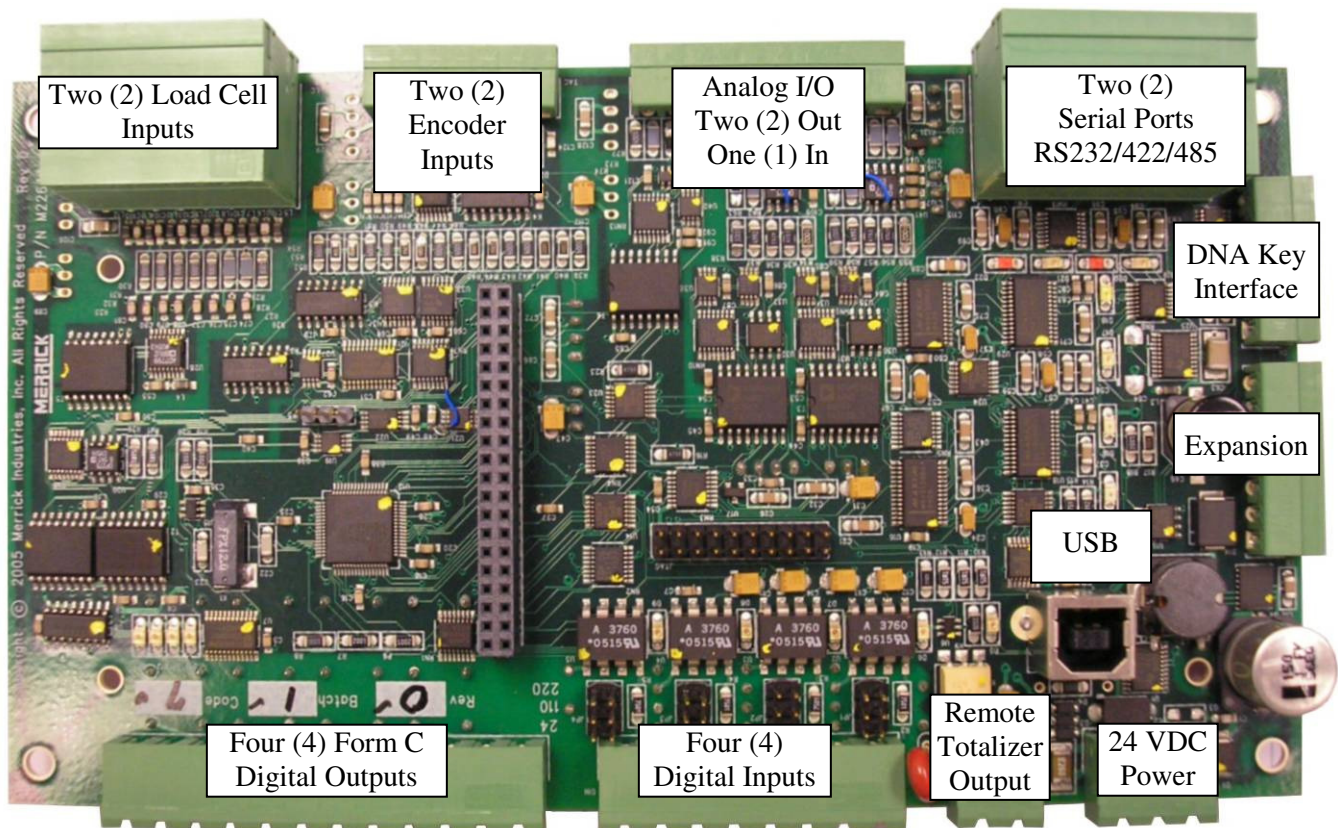
Genetix was designed to be the ultimate intelligent device for belt weighing and feeding applications. Genetix can be used as a:



Belt Scale Integrator	Weighing, Totalization, Alarms for Belt Scales
Belt Weigher	Weighing, Totalization, Alarms for Integrated Belt Weighers
Belt Feeder Controller	Closed-loop feedrate control of integrated Weigh Belt Feeder.
Batching Controller	On-demand delivery of a set amount of material
Pre-Feeder Control	Control of feed device upstream of the Belt Weigher

Genetix Core Module (GCM) Single Board Processor

The basic building block of a Genetix System is the Genetix Core Module (GCM). This single board can be DIN-Rail Mounted or is available with a NEMA-Rated Enclosure for mounting directly on a feeder or scale conveyor.



Standard I/O:

- Four (4) Digital Outputs
- Four (4) Digital Inputs
- Two (2) Analog Outputs
- One (1) Analog Input

Optional (maximum) I/O:

- Eight (8) Digital Outputs
- Eight (8) Digital Inputs
- Four (4) Analog Outputs
- Two (2) Analog Inputs

Logical Inputs and Outputs

Each Logical I/O Function can be assigned (mapped) to a Physical Input or Output. This is true of both Analog and Digital I/O.

**Commonly used Logical Digital Inputs:**

- Run Permission
- Feeder Block
- Gravimetric Mode
- Print
- Belt Running
- Diverter Valve
- Start & Stop Batch

Commonly used Logical Digital Outputs:

- Faults
- Warnings
- Low & High Feedrate
- Good Feedrate
- Low & High Belt Load
- Belt Slippage
- Low & High Speed Limits

Commonly used Logical Analog Inputs:

- Feedrate Setpoint
- Belt Load Setpoint
- Panel Meter Level

Commonly used Logical Analog Outputs:

- Control to Signal Motor Drive
- Feedrate
- Belt Load
- Belt Speed
- Pre-Feed Control

Standard Communication Protocols:

- Merrick Scalenet Protocol
- Modbus ASCII
- Modbus RTU
- Allen Bradley DF-1

Optional Communication Interfaces:

- EtherNet (A-B and Modbus)
- DeviceNet
- ControlNet
- Profibus

DNA “Portable Memory” Key (option)

- Store/Load Program Values
- Store/Load Material Characteristics
- Record Real Time Process Data



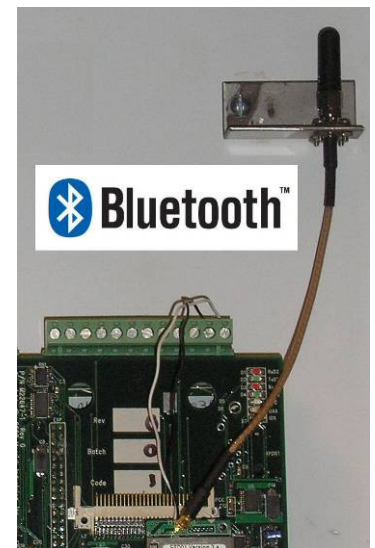
Two DNA Keys and Genetix Receptacle Shown

BluMerik Bluetooth Wireless (option)

Provides wireless communications using the industry standard Bluetooth Interface.

This optional interface is required for operation with the Genetix Remote Display.

Internal or external antenna configurations are available.



Internal Antenna Shown