



**A scalable vital Wayside Interface Unit with configurable hardware I/O features, where more flexible capability is required.**

### APPLICATIONS

- Small to Medium scale overlay of existing signaling locations.
- Hand Throw Switch Monitoring where rail integrity is required.

**Pre-engineered solution utilizing iVPI board set.**

**Ability to integrate broken rail detection or coded track circuit.**

### FEATURES

- Up to 48 input points per unit available.
- Multiple units can be combined for larger arrangements that appear to a PTC network as a single, large WIU.
- WIU communication I/O and user configurations on a dedicated WIU card.
- Optional broken rail detection or coded track circuit is supported.
- Embedded Web server for configuration and status.
- Can support external touch-screen for WIU control/status display if requested.
- Simultaneous AAR ITC and ACSES protocol operation.

### ADVANTAGES

- Simple user configuration and monitoring tasks.
- Low cost solution for broken rail detection or coded track circuit applications.
- Upgrade path to vital interlocking control if desired.
- Centralized WIU reporting from all networked Alstom equipment, reducing PTC radio requirements.
- Ease of application.
- User-friendly design tool for defining configuration data and boolean application logic. Same design tool as other Alstom WIU products.

## APPLICATIONS COMPARISON TABLE

|                                  | microWIU | iWIU i | VPI | Genrakode 3 |
|----------------------------------|----------|--------|-----|-------------|
| Optimized for Solar Applications | X        |        |     |             |
| Hand Throw Switch Monitoring     | X        | X      | X   | X           |
| Signal Aspect Monitoring         | X        | X      | X   | X           |
| Signal Aspect Control            |          |        | X   | X           |
| Hazard Detection Monitoring      | X        | X      | X   | X           |
| Broken Rail Detection            |          | X      | X   | X           |
| Interlocking Control             |          |        | X   |             |
| Coded Track Circuit              |          | X      | X   | X           |
| Power Switch Controlling         |          |        | X   |             |

## FEATURES COMPARISON TABLE

|  | Standalone |          | Integrated |             |
|--|------------|----------|------------|-------------|
|  | microWIU   | iWIU     | iVPI       | Genrakode 3 |
| Optimized for small applications       | X          |          |            |             |
| Based upon iVPI hardware platform      |            | X        | X          |             |
| Low power consumption                  | X          |          |            |             |
| Vital inputs per unit                  | 16         | 48       | 320        | 8           |
| Voltage and Current detection          | X          | X        | X          |             |
| Stackable                              | X          | X        | X          |             |
| Integrated touch screen user interface | X          | Optional | Optional   | Optional    |
| Wall mounting                          | X          | X        | X          | X           |
| Shelf mounting                         | X          | X        |            | X           |
| 19" rack mounting                      |            |          | X          | X           |
| Integrated Terminal Block I/O          | X          | X        |            | X           |

## FEATURES COMMON TO ALL UNITS

- Features meet AREMA and AAR specifications for WIU's
- Integrated web server
- Simultaneous support for ITC and ACSES protocols
- Site specific storage device (USB)
- 4 WIU Ethernet Ports
- 2 WIU USB Host Ports
- EMP Class C/D protocols
- ITP protocols
- TCP/UDP/IP
- Remote Configuration and Diagnostics
- Remote Systems Management
- Embedded Data Logging
- Integrated Temperature Alarm/Monitoring
- Built-in Status/Report Generator