



**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