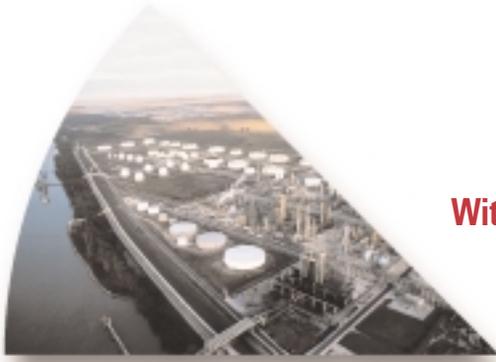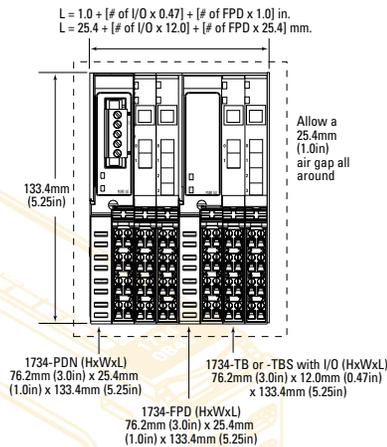Efficiency

Rockwell Automation's introduction of the new Allen-Bradley POINT I/O™ system is allowing more efficiency to be built into a variety of applications. With the need to be more productive and less wasteful in today's industrial environment, we've designed a product that will allow you to do that while maintaining a flexible and quality system.

Designed With Efficiency In Mind

The POINT I/O system features just-what-you-need granularity by reducing the typical installation design by 10-25% and thereby saving you 10-25% on the size and cost of your complete system. With up to four points of I/O per module and as low as 3mm per channel, if you need to expand your system, you may do so efficiently with just the right granularity and mix of I/O types. The bottom line is that you get the lowest per-used point cost with POINT I/O.
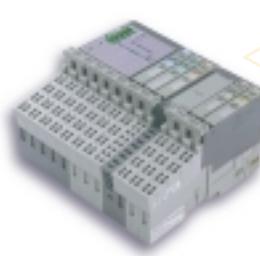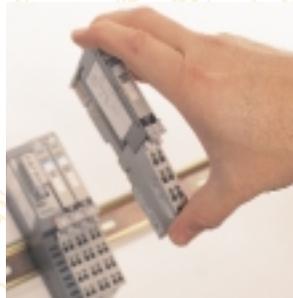
Good Things Come In Small Packages

Not only does the POINT I/O solution allow you to precisely specify the right amount of I/O for your application needs, system efficiency gains include reducing the installation space requirements. As new modular approaches to manufacturing are adopted, Control and Marshalling cabinets have all but been eliminated in favor of on-machine junction box mounted I/O. The small footprint of POINT I/O (12mm W x 75 mm H x 130 mm L or _" W x 3" H x 5_" L) and vertical insertion design further drives down acquisition costs and efficiently increases valuable space utilization.

$$L = 1.0 + [\text{\# of I/O} \times 0.47] + [\text{\# of FPD} \times 1.0] \text{ in.}$$
$$L = 25.4 + [\text{\# of I/O} \times 12.0] + [\text{\# of FPD} \times 25.4] \text{ mm.}$$

133.4mm (5.25in)

Allow a 25.4mm (1.0in) air gap all around

1734-PDN (HxWxL)
76.2mm (3.0in) x 25.4mm (1.0in) x 133.4mm (5.25in)

1734-TB or -TBS with I/O (HxWxL)
76.2mm (3.0in) x 12.0mm (0.47in) x 133.4mm (5.25in)

1734-FPD (HxWxL)
76.2mm (3.0in) x 25.4mm (1.0in) x 133.4mm (5.25in)

This compact size facilitates ease of use in multiple orientations without de-rating the system while maintaining compliance with IEC 1131-2. You can mount the system just about anywhere and in any orientation without affecting system performance. Furthermore, the low turn-on voltage facilitates SCADA/RTU installations and application environments where reliable power is a concern.

The Secret is in the Way POINT I/O is Designed

Installation efficiency gains are further realized by way of a "no tools needed" design approach. The entire system clicks together on a DIN rail by only using your hands. Once the modules are inserted and powered is applied, Sequential Auto Addressing (SAA) allows you to commission multiple modules at one time. The POINT I/O modules will auto address themselves in order, corresponding to their physical location for easy installation, commissioning and long-term maintenance.

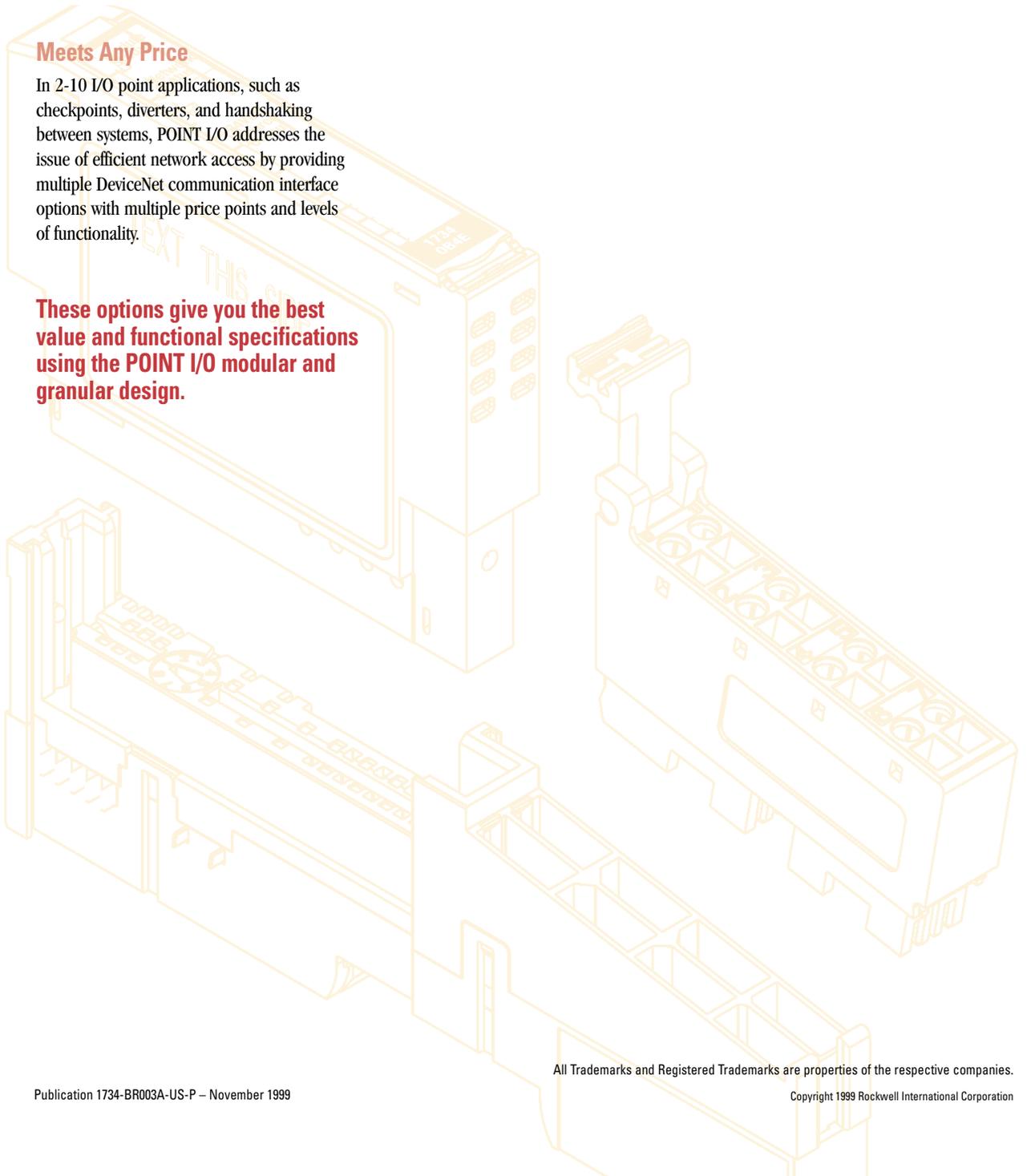continued

Efficiency

Made to Last - and Last - and Last

With POINT I/O, you know your system will be working effortlessly with our proven diagnostics, our true Removal and Insertion Under Power (RIUP) capability, and our Auto Device Replace (ADR) functionality. These combined benefits provide you with a reliable system capable of live maintenance. By maximizing system uptime and minimizing system repair time (Mean Time To Repair-MTTR), POINT I/O contributes to a more efficient manufacturing and distribution environment.

Meets Any Price

In 2-10 I/O point applications, such as checkpoints, diverters, and handshaking between systems, POINT I/O addresses the issue of efficient network access by providing multiple DeviceNet communication interface options with multiple price points and levels of functionality.

These options give you the best value and functional specifications using the POINT I/O modular and granular design.