

iPICK

illuminated intelligent identified

Data Processing Services, Inc.
www.goDPS.com

LIGHT DIRECTED PICK/PUT ORDER FULFILLMENT SYSTEM

What is iPICK

iPICK is a light directed order fulfillment pick or put away system (product BIN locations with electronic displays that indicate what designated number of units to pick or put away) generally utilized for less-than-case (broken case) item selections ([split case fulfillment](#) - Material Handling Institute @ Charlotte, NC). Using light directed picking reduces picking time about 38 to 50% versus pick from paper invoices. Accuracy is dramatically improved often times up to 98-99%! **iPICK** solutions help distribution and manufacturing quickly and accurately meet order or kitting requirements with reduced setup and order completions saving labor and money efficiently!

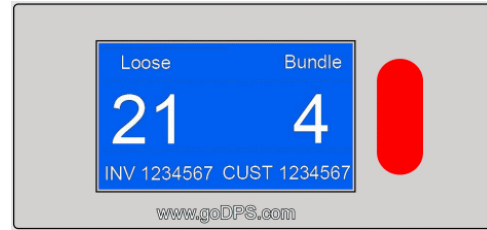
iPICK display-based pick and put to light system is one of the fastest, most efficient picking solutions available today! DPS has years of experience in design and production of pick systems as this is a 4th generation design. A graphical LCD pick module with bright pick beacon illuminating the pick BIN location guides the operator's activity at the BIN location. The graphical display instructs pickers for bulk and loose picking from same location (i.e.: magazine bundles and loose copies pulled from same BIN location), plus instructs operator actions such as *Close Box/Order Complete, No Pick, End of Pick, Do Not Advance*, etc. Invoice and customer detail are sent to the display which helps operators verify they have made the correct actions.



HIGH PRODUCTIVITY

iPICK represents a most advanced, accurate, productive and economical light directed order fulfillment solution. This unique 4th generation design can easily reformat to meet varying daily load to labor requirements to balance pick activity/load to available labor, spreading the pick's equally amongst operators.

The **iPICK** LCD display is a very intelligent microprocessor based unit with memory and large display format. Multiple lines of data and/or graphical images for instruction are sent to operator to guide disposition of the pick or container handling in the pick process.



BIN Display Module

The **iPICK** LCD display is easy to install and maintain using the DPS innovative "snap-to-track" design. **iPICK** uses a four conductor embedded BUS integrated in the durable plastic extrusion which can be virtually mounted anywhere in flow racks or to static shelving. The embedded BUS design eliminates the problems associated with other designs. Data and power requirements travel the BUS with each module having BUS contacts that employ a "wiping" design that actually reseats each device with use.

Each pick module is pre-assigned a unique serial number eliminating the need to set dip switches or configure elaborate setup address schemes. Maintenance associated and system outages associated with poor connections and shorted wiring is eliminated.

iPICK modules can perform as BIN/item instruction detail display or as the Master Order Control Display for advancing and reviewing pick/carton-tote detail reducing the number of devices in the entire system. System spare on-hand replacement parts are kept to a minimum.



Master Control Display Module

As orders enter a pick area, the Master Control Display module indicates current order number or tote/box number together with customer number and number of totes/boxes for the specific order. The example above is showing the route, invoice sequence, account number and specific invoice reference number.

Example ZONE with order to container detail – Container Completed

Master Ready to Pick LED = Yellow	BIN w/Pick Qty displayed LED = Red	BIN w/Pick Qty displayed LED = Red	BIN NO Pick "- - - -" displayed No LED Lit	BIN w/Pick Qty displayed LED = Red	BIN END OF PICK No LED Lit	BIN Box Complete LED = Orange

iPICK Specifications

www.goDPS.com

iPICK Track is made of extruded plastic snap-tite front and back with four (4) embedded power and data wire conductors forming a BUS design. The innovative engineered BUS design track allows for "snap-in" of modules speeding installation and reducing maintenance and system down outages due to faulty wires and connections of older systems.

BOTTOM SIZE: 60" X 2.56" X 1.19"

TOP SIZE: 60" X 2.56" X .400"

iPICK display module is comprised of the LCD graphical display, display daughter board and the cover assembly. The cover assembly keypad has a translucent rubber switch over a tri-color LED that is mounted over the rigid extruded cover that joins the LCD display, daughter board and cover together forming the display module unit that "snaps" into the bottom track extrusion.

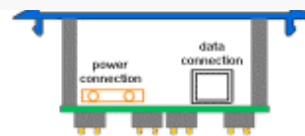
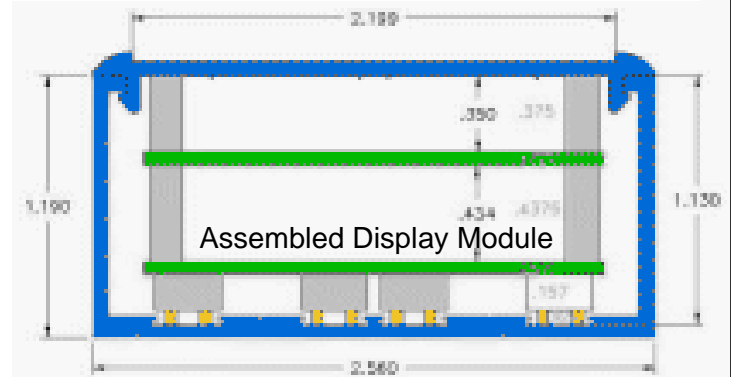
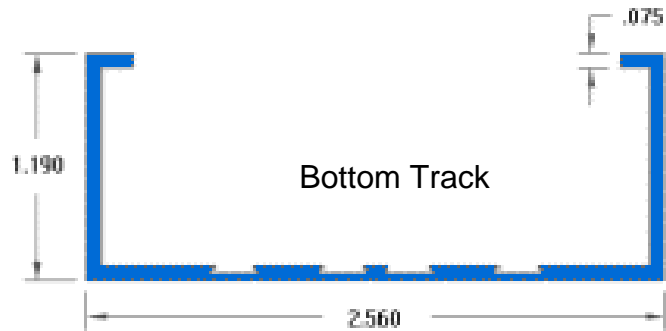
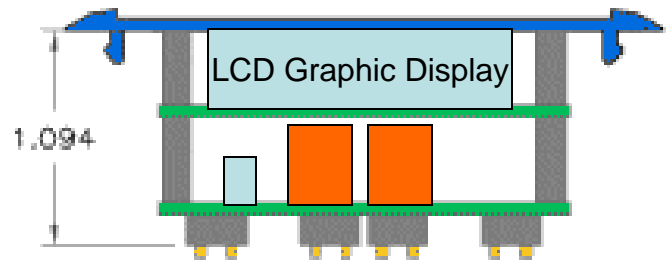
SIZE: 5.25" X 2.56" X 1.094"

iPICK data and power (I/O module) module bring the power and data into the track, plus jumper the power and data from track to track. One (1) I/O boards is required at each connection of 5 foot track, plus at data or power entrance to the system.

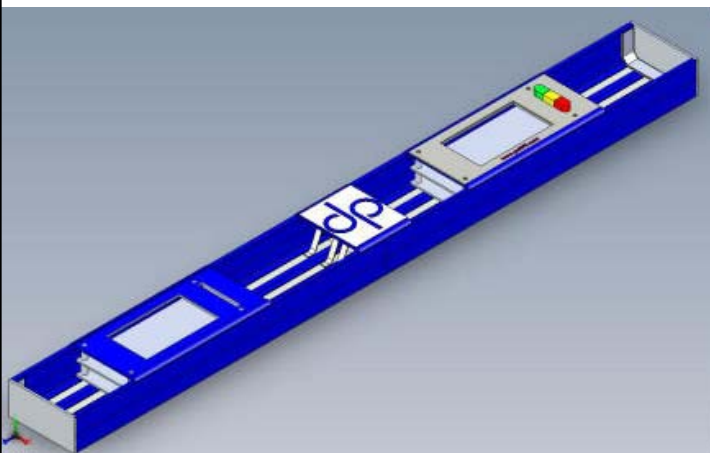
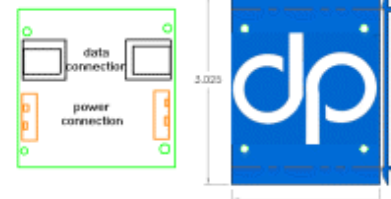
SIZE: 4.65" X 2.56" X 1.094"

iPICK repeater/amplifier module handle data distribution activities through our the system, condition the data and extend the distances of data transmission. A minimum of one (1) repeater/amplifier board is required for each system. The data entrance to system is first linked up to a repeater/amplifier module from an I/O module. A repeater/amplifier module will handle a minimum of 100 displays.

SIZE: 4.65" X 2.56" X 1.094"



I/O Module



SYSTEM SAFETY: Low voltage system REQUIRES POWER OFF to SERVICE any component of iPICK. FAILURE MAY CAUSE EXTREME HARM OR DEATH. Track conductors can carry 50 AMPs of 12 volt DC current.

The iPICK design allows personnel to safely swap modules with limited exposure to track rails however, Murphy's Law always applies so it's best to remove power when servicing. LOW VOLTAGE DOES NOT IMPLY LOW HAZARD! 100mA for 3 seconds = 900mA for .03 seconds MAY cause fibrillation.

LIGHT DIRECTED PICK/PUT ORDER FULFILLMENT SYSTEM

iPICK

illuminated intelligent identified

Data Processing Services, Inc.
www.goDPS.com