

APPLICATION STORY OF AN MPL PRODUCT

PIP6 used in a finger dock

FMC (JETWAY) AIR BRIDGE, OGDEN, UT USA

FMC-JETWAY Apron Drive Passenger Boarding Bridges are the most versatile and widely used boarding bridges in the world. Available in two or three tunnel models JETWAY extending or retracting. This freedom of movement, coupled with up to 185 degrees of cab rotation, allows the apron drive bridge to reach and service multiple aircraft models positioned in a wide variety of parking configurations

All bridge movements are accomplished through electro-mechanical devices, eliminating the fire hazard and maintenance problems associated with hydraulic systems. Operating controls are solid-state with self-diagnostic circuits for extended life. Computerized controls and information feedback systems are available as part of the enhanced Smart Bridge™.

Application

FMC-Jetway manufactures air bridges for loading and unloading passengers on a wide variety of large commercial and small regional jet aircraft.

FMC has designed the intelligent "SmartBridge" in which the PIP-6 is the main computer controlling all bridge movements. The PIP-6 also drives a flat panel display to give a GUI representation of bridge position and status. This includes the acquisition and display of real time video data from a "safety" camera mounted below the bridge to ensure all personnel are clear prior to bridge movement.

PIP6 also serves as a maintenance web server. The PIP queries all devices on the CAN/serial bus and

report status via encrypted www connection to the customer and FMC. This dramatically improves maintenance response and faster analysis of undetected bridge problems.

Reasons for using MPL products

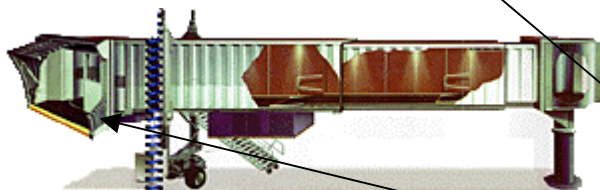
MPL was selected in place of SBS (OR brick) as the designed in system controller

- Better long term support than SBS
- Complete solid state solution (NO FANS)
- Compatibility with NT embedded
- The selection of the PIP solution was done after more than 12 month intensive tests with the application.



MPL products used:

- PIP6-2
- SDRAM-128
- IDEFlash-32
- NT embedded
- SIP supplied custom cable to split out serial ports 3&4.



The PIP6 is located in the control apron of each airbridge

