

Application Specifics

AEROFLEX COLORADO SPRINGS MIXED-SIGNAL ASIC SOLUTIONS

POINT-OF-SALE

PROBLEM = MULTIPLE LEGACY I/O SUPPORT IN HAND-HELD DEVICES

- **Legacy** Despite the popularity of USB and IEEE 1394, legacy serial (RS485, RS232) and other interfaces (keyboard wedge, OCIA) need to be supported.
- **Signal levels** The need to handle bipolar and high voltage signal levels increases system cost, power, and size.
- **Distributor inefficiency** Must carry multiple I/O versions of the same basic hand-held device.
- **Manufacturing inefficiency** Must produce multiple boards for same hand-held product due to different I/O designs.

SOLUTION = AEROFLEX MULTI-I/O ASICs

- **Interface** All serial I/O over the same RX/TX pair. Cable selectable.
- **On-chip** sense and switch from USB, RS485/RS232 (up to $\pm 10V$), keyboard wedge or OCIA transceiver.
- **Distributor efficiency** Carry cables and one product version. No more inventory problems.
- **Manufacturing efficiency** Only one type of board to manufacture.

