

e-BUS System in Taiwan - For Mass Transit Information Needs (PCM-5825)

Features: PCM-5825 SBC with AMD Geode CPU, 4COMs, VGA/LCD, Ethernet & Audio Interface



Application Background:

An intelligent "eBus" mass transit information system was implemented using Advantech's [PCM-5825](#) by TeleNet International Corp. It addresses the main requirements of an APTS (Advanced Public Transportation system) in providing useful, real-time information to the traveling public and transit system workers and administrators.

Application Details:

An "intelligent" transportation system, which utilizes advanced global positioning system (GPS) and general packet radio service technology, was designed to significantly raise the level of bus services. To implement this application, TeleNet used GPS (Global Positioning System) technology because of its' reliability and global reach, for its system location pinpointing technology. The new system incorporates devices on each vehicle to indicate real-time, orientation and location of each bus, and the times to each bus stop. Passengers are kept up-to-date with arrival times and are supplied pertinent traffic information.

For intelligent transportation system applications, TeleNet's key criteria focused on reliability, stability, flexible I/O capability, and processing velocity. Reliability and stability are always important, from the end-customer's perspective, down time equals poor service; poor service means bad reputation, not to mention frustrated commuters. The project also required flexible I/O connection capability to handle a variety of output devices.

System Integration:

TeleNet™ International Corp. chose Advantech's PCM-5825 embedded SBC (single board computer) to meet their requirements for several reasons. First, the industrial grade construction and proven reliability, gave them the confidence that their product could operate in the most demanding environments. Second, the SBCs' flexibility and I/O capabilities fitted their expectations; PCM-5825s 4 COM ports addressed all the I/O requirements. Third, owing to Advantech's commitment to next generation products through ongoing R&D, PCM-5825 became the ideal solution to their application needs. PCM-5825 SBC is a feature-packed, capable solution for public transport information critical applications.

Let Advantech help you with your customized needs. Contact your local Advantech representative or visit our website at www.advantech.com for contact, ordering information or to find out more information. Contact Advantech now.