

XPDA-S PCI Operational Description

Product: PANDORA

Model Name: XPDA-S PCI

XPDA-S PCI is a secure all-in-one mobile computer that satisfies PCI PED security standard and EMV. Based on Windows CE.net 5.0, XPDA-S PCI has integrated printer, barcode scanner, and secure PIN-PAD with smart card reader and magnetic stripe reader. Complex business applications that need to collect data and perform real-time communication is easy and fast with XPDA-S PCI. In addition, PCI PED certified PIN PAD will allow you process credit card securely and effortlessly. As, printer, barcode scanner, GSM and PIN PADs are all integrated in to a single device, there is no need to purchase additional accessories or device to handle printing or payment.

Wireless LAN

1. XPDA-S PCI use DDCBW-NMx1A WLAN + Bluetooth Combo module by Device Design that is a the compact size and low power system-in-Package (SiP) complying with the IEEE 802.11b/g/n standard compliant. It uses Broadcom 4329 chipset and supports standard interfaces SDIO v1.2 (50 Mhz, 4 bit and 1 bit), SPI (48 Mhz) and high-speed UART.
2. DDCBW-NMx1A supports various security setups in the followings.
 - WPA and WPA2
 - AES and TKIP for faster data encryption and 802.11i compatibility
 - WLAN subsystem provides WPS (WiFi Protected Setup)
3. DDCBW-NMx1A is designed to be connected to CPUs based on ARM11.
4. Electronic Information
 - Operating voltage is 3.3V and regulated 1.8V
 - Operating Frequency Range: 2412 ~ 2462 MHz (11 channels)
 - Modulation mode: DSSS for 802.11b, CFDM for 802.11g, OFDM for 802.11n(20)

Bluetooth

1. XPDA-S PCI use DDCBW-NMx1A WLAN + Bluetooth Combo module by Device Design that is a the compact size and low power system-in-Package (SiP) complying with the Bluetooth 2.1 + EDR specifications.
2. DDCBW-NMx1A is designed to be connected to the CPU based on ARM11.
3. Electronic Information
 - Operating voltage is 3.3V.
 - Operating Frequency Range: 2402 MHz ~ 2480 MHz
 - Modulation mode: TDD

Modem

1. XPDA-S PCI use MU509 HSDPA Module which supports both GSM and WCDMA .
2. MU509 is designed to be connected to the mobile products which have CPUs based on ARM11.
3. Electronic Information
 - Operating voltage range is 3.3 to 4.2V (3.8 is recommended)
 - Frequency: WCDMA Dual band 850/1900 Mhz, GSM/GPRS/EDGE 850/900/1800/1900 Mhz (EDGE mode disabled / not supported in final host)

RFID

1. XPDA-S PCI use MF RC531 chipset (NXP semiconductors) -based RFID module UM100-F by ITWell.
2. RFID module uses STM32F103 ARM Cortex M3 processor by STMicroelectronics.
3. 5VDC internally from host, operation at 13.56 MHz single frequency with onboard coil antenna.