



Features

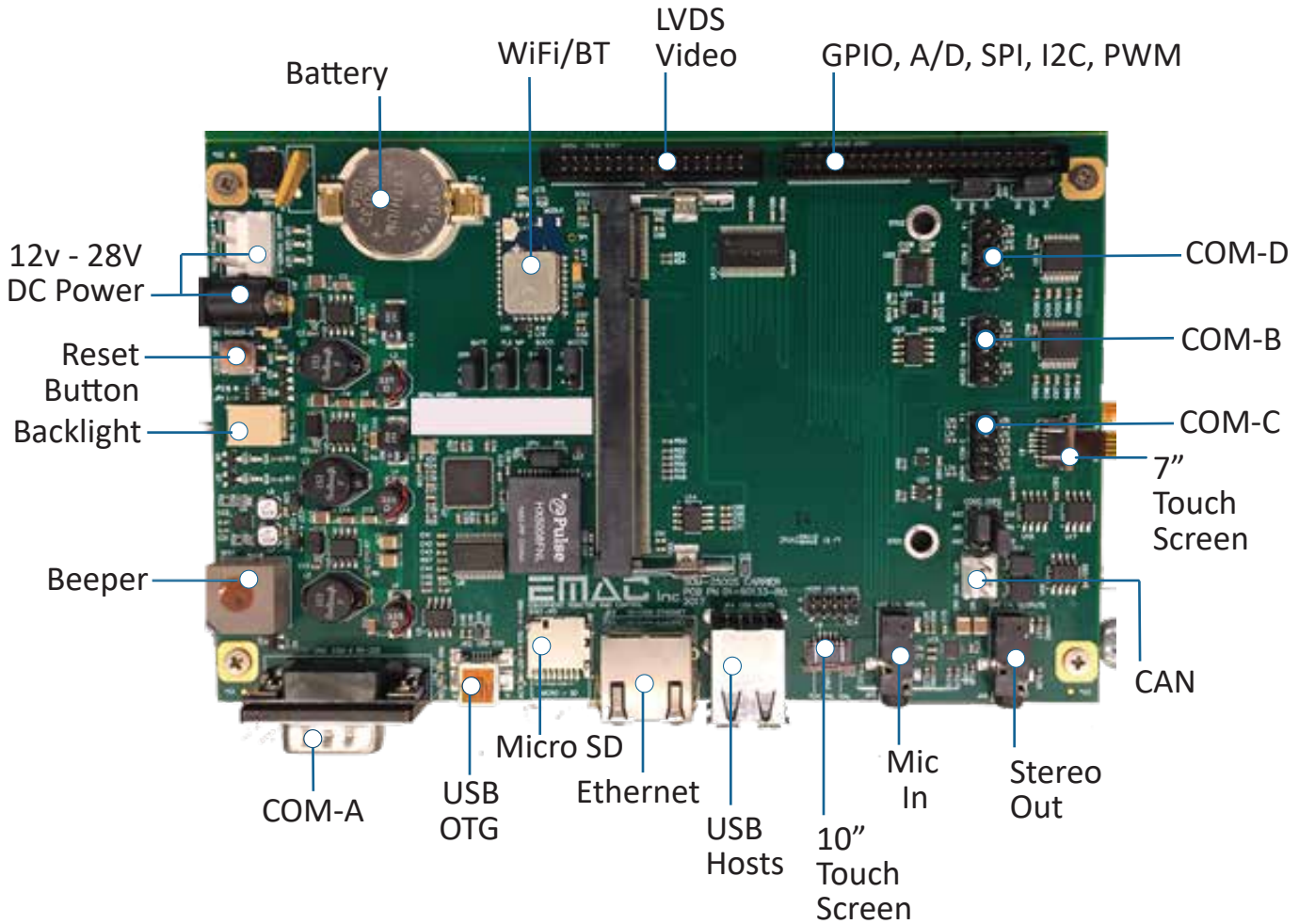
- NuvoTon Dual 800MHz ARM 64-bit Cortex A35
- Additional 180MHz Cortex M4 coprocessor
- 4GB of eMMC Flash & 512MB of DDR3 RAM
- 7" (800 nits) WVGA LVDS LCD with Touchscreen
- 4x MIPI-CSI Lanes, 4x MIPI-DSI Lanes
- Dual Ethernet ports (1x 1GB & 1x 100 BaseT)
- 16x GPIO, 1x SPI, 1x I2C, 1x CAN-FD, 2xPWM
- 3x USB 2.0 Ports
- 4x Serial Ports (3x RS232/1x RS232/422/485)
- Inexpensive Open-Frame Design
- WiFi 802.11 a/b/g/n Bluetooth 5.1



Specifications

Processor	NuvoTon MA35D1 Dual 800MHz 64-bit ARM Cortex A35 180MHz Cortex M4 coprocessor
Memory	512MB DDR3L SDRAM 4GB eMMC Flash 16MB of Serial Data Flash 1x Micro-SD Flash Card Socket
I/O	16x GPIO, 4xA/D, 1xSPI, 2xPWM) 1x I2S Audio port with Mono Microphone In/Stereo Line-Out 1x 1000 BaseT & 1x 100 BaseT Ethernet with Status LEDs 2x USB 2.0 High Speed Type A Host ports & 1x USB 2.0 High Speed Type C OTG port 1x Audio Beeper 4x Serial Ports (3x RS232 & 1x RS232/422/485 Port) Battery backed Real Time Clock 4x MIPI-CSI Lanes 1x I2C Port System reset button
Video	WVGA (800 x 480) Resolution with LED Backlight (800 Nits) 4x MIPI DSI Lanes and LVDS Software Controlled Backlight On/Off & Brightness
Analog	4x A/D Channels with 12-bit A/D Converter - 4-wire resistive touchscreen Controller
Wireless	Wireless 802.11a/b/g/n & Bluetooth 5.1
OS	EMAC OE Embedded Linux
Dimensions	7.55" x 4.15" x 1.15" (191mm x 105mm)
Power Req.	12V (+12 to +28 V DC) Typical Running Current Consumption TBD (Note: Up to 1.5A is Req. if USB Host is providing power to 3x USB devices)
Environment	-20° to +70° C *Note: Temperature limited by LCD





Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	VIDEO	CONNECTIVITY	TEMPERATURE
PPC-07-35D1-1R	Nuvoton MA35D1	512MB DDR3 SDRAM 4GB eMMC FLASH 16GB Serial Data Flash	4x	16x	2x Host 1x OTG	WVGA (800x480) LCD Graphic Touch Screen	1x GB & 1x 100 BaseT LAN WiFi 802.11a/b/g/n Bluetooth 5.1	-20° to +70° C

Optional Accessories

PRODUCT #	DESCRIPTION
PER-PWR-00035	12V @ 2.1A Wall Power Supply (110 V @ 60 HZ US)
PER-PWR-00075	12V @ 2.1A, 90-264V @ 47-63Hz input, Universal power prongs for worldwide use, 2.1mm Barrel
PER-PWR-00090	12V @ 2.5A Desktop Power Supply, standard IEC 320-C14 input connector, 2.1mm barrel jack output
PER-MIS-00050	2.4GHz & 5GHz WiFi Antenna with 10 cm cable, IPEX connector, adhesive antenna.

PRODUCT #	CABLES (Optional)
CAB-35-003	6' DB9 to DB9 Null Modem Extension Cable

