



- High performance ARM Architecture.
- Intuitive user Interface.
- Versatile connectivity options.
- Compact and Robust design.

Introduction

The ARM based HMI Unit with 7-inch Capacitive Touch Display is a versatile, high-performance embedded system ideal for industrial, automotive and consumer applications. Featuring responsive touch input and vibrant visuals, it offers flexible connectivity options including RS232, RS485, USB Host, 10/100 Mbit/s Ethernet and a SD card slot. This compact, powerful unit provides reliable real-time control, monitoring and data storage for diverse systems.

Specifications

CPU Unit and Power Specifications

Operating Voltage	+6V to +27V
SoC Family	32-bit ARM Cortex based Processor
CPU	1 X Arm Cortex-A7 (1GHz), 1 X Arm Cortex-M4 (200MHz)
RAM	1GByte
eMMC	4GByte
RTC	Built-in
Serial Interface	1 x RS232, 3 x RS485
USB Interface	1 x USB Host, 1 x USB OTG
SD Card Slot	1 x Micro SDHC
Ethernet	1 x 10/100 Mbit/s Ethernet
Operating Temperature	-20°C to +85°C
Storage Temperature	-40°C to +100°C

HMI Unit Specifications

LCD Type	7" Capacitive touch TFT Transmissive, Anti-glare
Technology	a-Si TFT
Viewing Direction	12:00 O'clock
Viewing Angle	6:00 O'clock
Number of Pixels	800 x 3(RGB) x 480
Colors	16.7M
Backlight	LED
Backlight Brightness	500 cd/m2
Interface	RGB 18bit + TCON
Touch Interface	I2C
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C

Order Information

Part No.	Description
AT-7030	7" HMI System with Multi-protocol Master