

Human Machine Interface



NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

Projected capacitive multi-touch and zoom HMI with nimble touch and high light transmittance, tech data's size and shape are per user's need. High-speed 600/800MHz ARM Cortex A8 CPU, fast communication speed, support dynamic image presenting fine complicated flash, multi pages switch smoothly. Support Modbus communication protocol.

Built-in isolated protective power terminal. PCB coating protection mainboard, adapts various strict environment. Abodon snaps, eaiser installation. High smart, high precise, high reliable panel with at least 50,000 working hours. Electric Isolation RS232/RS485/RS422/Ethernet communication interface. Available sizes: 7", 15"

Features

Capacitive Tempering Glass Protective Touch Panel

- High hardness, anti-scratch, no drafting
- Extraordinary thermostability, stand higher tempering difference

Anti-Disengaging Devices

- Abodon traditional snaps, use disengaging screw
- Easier Installation

Multi-touch and zoom

Capacitive multi-touch glass+glass HMI with nimble touch and high light transmittance multi-zoom gesture makes picture and tech data control freely per users needs

PCB Coating Protection

 Enhance the strength of damp proof, dust proof, corrosion resistance in any harsh environment

Built-In Isolated Protected Plug-In Power and COM terminal

- Easier operation and longer working life
- Isolated power supply, protected from thunderstrike and surging

IP65 Front (with NEMA panel) and IP20 Back Panel

 High protection level, more suitable for stricter environments

30mm Min thickness

7" 30mm capacitive HMI meet customers high-end needs

Innovative Package Design

 Enhance the strength of damp proof, dust proof and corrosion resistance in any harsh environment

Ordering Information

Part Number

MC-H070S * HMI,7" 16:9TFT LCD,4 wire resistive. Ethernet, SD Card

MC4150X * HMI,15" 4:3TFT LCD,4 wire resistive, metal Shell, Ethernet, SD Card

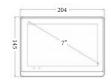
* Stocked Item

Human Machine Interface

Technical Specifications 7" MC-H070S Resistive HMI

	Туре	4 Wire resistive touch screen
	Display	7" 16:9 TFT LCD
	Resolution	1024x600
	Colours	24 bit-colours
	Brightness	450 cd/m ²
	Backlight	LED
	Backlight Life	5000 hours
	Touch Panel	4 Wire resistive touch screen
D : 0 :5 ::	CPU	600MHz ARM cortex-A8
Basic Specification	Memory	128M Flash + 128M DDR3
	RTC	Built-in real-time clock
	Ethernet	1x10/100M self adaptation
	SD Card	Support
	USB Port	1 USB host 2.0, 1 USB Device 2.0
	Download Project	U-Disk/ USB device/ethernet
	Serial Communication	COM1/COM3: RS232/RS485/RS422;
	Terminal	COM2:RS485
	T/B/L/R	85'/85'/85'/85'
	Power Consumption	<10W
	Input Power	DC24V, Input range; DC9V ~ 28V
	Power Protection	Isolated power supply, protect from
Power Specification	Power Protection	thunderstrike and surging
	Response	<5ms
	CE&ROHs	Complied with EN61000-6-2:2005,
	CEARONS	EN61000-6-4:2007 RoHs
	Working Temperature	0~50°C
	Storage Temperature	-20~60°C
Working Environment	Humidity	10~90%RH (No condensation)
Treatment of the second	Aseismicity	10~25Hz (X, Y, Z 2G/30MIN)
	Cooling Method	Natural air cooling
	Protection Level	Front Panel IP65, Back Panel IP20
	Material	ABS+PC
Others	Panel Cutout (WxH)	192mmx138mm
Others	Dimension	204mmx145mmx44.5mm
	Net Weight	Approx 650g

Front



Side

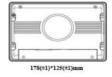


Embedded snap-in installation

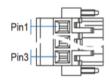
Bottom



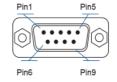
Hole Size



Dimensions



Power Terminal		
Pin 1	FG	
Pin 2	0V	
Pin 3	DC24V	



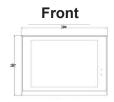
COM1/COM3 Communication Terrminal		
Pin 1	Rx-(B)	
Pin 2	RxD (COM1 RS232)	
Pin 3	TxD (COM1 RS232)	
Pin 4	Tx-	
Pin 5	GND	
Pin 6	Rx+(A)	
Pin 7	RxD_PLC (COM3 RS232)	
Pin 8	TxD_PLC (COM3 RS232)	
Pin 9	Tx+	

Human Machine Interface

Technical Specifications

15" MC4150X - Metal Resistive HMI

	Type	Industrial metal resistive HMI
	Display	15" 4:3 TFT LCD
	Resolution	1024x768
	Colours	24 bit-colours
	Brightness	400 cd/m ²
	Backlight	LED
	Backlight Life	5000 hours
	Touch Panel	4 Wire resistive touch screen
Basic Specification	CPU	600MHz ARM cortex-A8
	Memory	128M Flash + 128M DDR3
	RTC	Built-in real-time clock
	Ethernet	10/100M Base
	SD Card	Supporting
	USB Port	1 USB host 2.0, 1 USB Device 2.0
	Download Project	U-Disk/ USB device/ethernet/SD card
	Serial Communication	COM1/COM2: RS232/RS485/RS422;
	Terminal	COM3:COM4: RS232
	Power Consumption	<15W
	Input Power	DC24V, Input range; DC18V ~ 28V
	Power Protection	Isolated power supply, protect from
	Power Protection	thunderstrike and surging
Power Specification	Response	<5ms
	CE&ROHs	Complied with EN61000-6-2:2005, EN61000-6-4:2007 RoHs Surge Immunity±1KV, EFT ±2KV; ESD:4KV, Air:8KV
	Working Temperature	-20~70°C
	Storage Temperature	-30~80°C
Working Environment	Humidity	10~90%RH (No condensation)
Working Environment	Aseismicity	10~25Hz (X, Y, Z 2G/30MIN)
	Cooling Method	Natural air cooling
	Protection Level	Front Panel IP65, Back Panel IP20
Others	Material	Front cover made from aluminium, surface with hard oxide treatment, back cover made from steel and the surface with baking finish treatment
	Panel Cutout (WxH)	360mmx272mm
	Dimension	394mmx297mmx48.3mm
	Net Weight	Approx 10kg





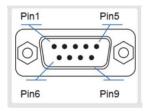


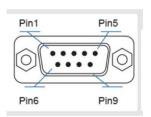
Bottom

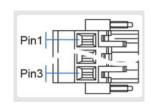


Mounting slots

Dimensions







COM1/COM3		
Pin 1	Rx-(B)	
Pin 2	RxD PLC (COM1 RS232)	
Pin 3	TxD PLC (COM1 RS232)	
Pin 4	Tx-	
Pin 5	GND	
Pin 6	Rx+(A)	
Pin 7	RxD PLC (COM3 RS232)	
Pin 8	TxD PLC (COM3 RS232)	
Pin 9	Tx+	

Pin 1 Rx-(B)	
Pin 2 RxD PLC (COM2 RS232)	
Pin 3 TxD PLC (COM2 RS232)	
Pin 4 Tx-	
Pin 5 GND	
Pin 6 Rx+(A)	
Pin 7 RxD PLC (COM4 RS232)	
Pin 8 TxD PLC (COM4 RS232)	
Pin 9 Tx+	

Power Terminal		
Pin 1	FG	
Pin 2	0V	
Pin 3	DC24V	