Product: tipp2Go
Modell: PC070A40

7“ Embedded Touchscreen PC

- **Powerful Quad-core ARM Cortex™-A7 Processor**
- **1024x600 resolution LVDS+HDMI output**
- **IP65 Flat Front – Edge to Edge Glass**
- **CAN BUS Interface via CPU connection**
- **ARM based**
- **Android OS-support**

tipp 2 GO‘s Embedded Touchscreen Series is the cost effective solution for machine control, automation, and digital signage. By including pre-installed Android or Linux, a powerful Allwinner V40 Quad-Core CPU.
This embedded Touchscreen PC has USB, serial, network, TTL/UART, Mini-PCIe, HDMI,GPIO, 3G,GPS,BT4.0 and 8-36V DC-in. This PC use 10 point capacitive touch panel and use optical bonding technology. Each LCD panel comes with LED backlight and is backed by tipp 2 GO‘s warranty for pixel accuracy (A + quality).The design of the Embedded Touchscreen series follows the application: flat easy to integrate IP65 front and stable rear housing with VESA-75 mounting for fixing / integration. tipp 2 GO‘s new Embedded Touchscreen Series is our most cost-effective solution for intelligent machine control, and like all tipp 2 GO‘s reliable touch devices built for precision and durability.

RoHS ✔ CE FC

PC SYSTEM	
CPU	Allwinner V40 Quad-core ARM Cortex™-A7 Processor
Graphic GPU	Mali400 Mp2
Audio	Integrated HI-FI 100dB Audio Codec Dual analog Mic, 2x3W amplifier
Memory	32Bit 1GB DDR3 RAM
Hard Drive	8GB EMMC5.0 Flash
Network	10M/100M/1000M Bit
Driver Support	Android
Preinstalled OS	Android 4.4

TOUCH PANEL	
Touch Technology	Projective Capacitive
Touch	10 point touch
Touch Life (Contacts)	50 million touch in 1 location
Surface Hardness	7H

LCD PANEL	
IP Protection Class	Front case with IP65
Screen Diagonal (inch/cm)	7“
Aspect Ratio	16:9
Resolution	1024x 600
Colors Displayed	262K
Viewing Angle	170/170
Brightness (cd/m2)	500
Contrast Ratio	700:1
Backlight/Backlight Lifetime (Hours)	LED /20,000

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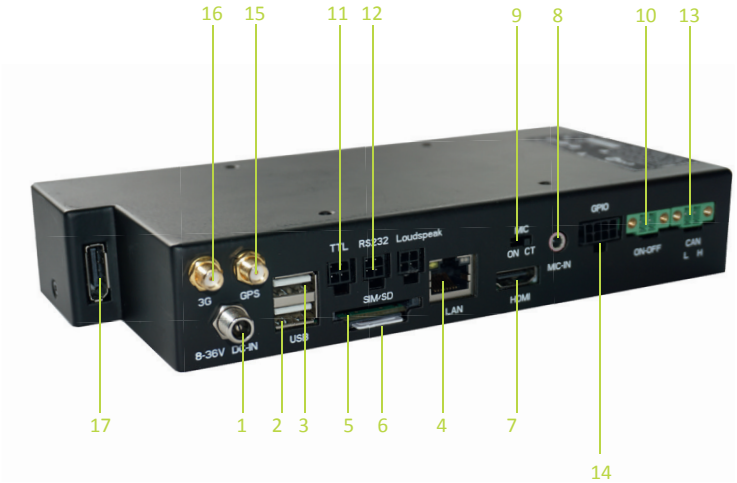
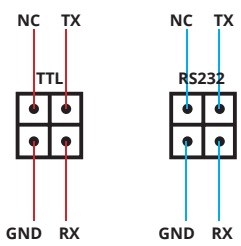
WIRELESS COMMUNICATION

UMTS/HSPA: 850/900/1900/2100MHz GSMGPRS/EDGE: 850/ 900/ 1800/ 1900 MHz HuaweiMU609 -FCCID: QISMU609
WiFi(AmpakAP6476) WLAN Standard: IEEE 802.11b/g/n, WiFicompliant FrequencyRange: 2.400 GHz ~ 2.497 GHz (ISM Band) Modulation: 802.11b : DQPSK, DBPSK, CCK 802.11 g/n : OFDM /64-QAM,16-QAM, QPSK, BPSK
Bluetooth (AmpakAP6476) Bluetooth Standard: Bluetooth V4.0 of 1, 2 and 3 Mbps. Frequency Band: 2.400 GHz ~ 2483.5 GHz Modulation: FHSS, GFSK, DPSK, DQPSK
GPS (AmpakAP6476) FrequencyBand: 1575.42 MHz 1 x 3G; 1 x Bluetooth 4.0; 1 x GPS



PE3	PE5	MIC+	5V
PE4	MIC-	PTT	GND



INTERFACES OVERVIEW

1	Power plug 8-36V
2	USB 2.0 Port
3	USB 2.0 Port
4	LAN
5	SD-Card reader
6	SIM Card
7	HDMI OUT
8	3.5 inch MIC connector
9	MIC Control
10	2-pin industrial connector to control Taxi-PC's external power on/off button
11	TTL serial Port to control GPIO
12	RS232 serial Port for Communication
13	CAN BUS
14	GPIO port
15	GPS
16	3G
17	DP 20pin for LVDS+USB touch

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External Connectors

8 V~36V DC-IN with ignition control
2 x USB 2.0, 2 x serial interface
1 x RJ45
HDMI out
1 x 3G; 1 x Bluetooth 4.0;
1 x GPS
2 x 3W loudspeaker
CAN BUS Interface via serial connection (optional)
2 x General purpose inputs/ 2x General purpose outputs
1 x Webcam (optional) Push to talk solution (audio jack Mic-In/Audio-Out) • Switch to choose between built-in-and outside-speaker connected • 4-pin industrial connector for loudspeaker extension • 2-pin industrial connector to control Taxi-PC's external power on/off button • switch to control MIC function
SD card slot

Operation/Mechanical

Operating Temperature	-25~+70
Humidity Range (RH)	10%-90%
Net weight (kg)	1
Gross weight	2.2
Housing Material	Rubber front with plastic back case
Housing (mm) L x W x H	210x 141.9x 39.5
Mounting	VESA 75

Accessory

User Information

Power

Power Indicator	Green LED
Working Power	6V~36V
Power Consumption (W)	8
Stand-By Consumption	<1 (W)

GPIO Use Guide

Use a DB9 cable connect computer and embedded PC TTL serial

Write GPIO_PE3 to High voltage level
echo 1 > /sys/class/gpio_sw/PE3/cfg;echo 1 > /sys/class/gpio_sw/PE3/data

Write GPIO_PE3 to Low voltage level
echo 1 > /sys/class/gpio_sw/PE3/cfg;echo 0 > /sys/class/gpio_sw/PE3/data

Write GPIO_PE4 to High voltage level
echo 1 > /sys/class/gpio_sw/PE4/cfg;echo 1 > /sys/class/gpio_sw/PE4/data

Write GPIO_PE4 to Low voltage level
echo 1 > /sys/class/gpio_sw/PE4/cfg;echo 0 > /sys/class/gpio_sw/PE4/data

Write GPIO_PE5 to High voltage level
echo 1 > /sys/class/gpio_sw/PE5/cfg;echo 1 > /sys/class/gpio_sw/PE5/data

Write GPIO_PE5 to Low voltage level
echo 1 > /sys/class/gpio_sw/PE5/cfg;echo 0 > /sys/class/gpio_sw/PE5/data

Read GPIO voltage level

Read GPIO_PE2 voltage level
echo 0 > /sys/class/gpio_sw/PE2/cfg;cat /sys/class/gpio_sw/PE2/data

Read GPIO_PE3 voltage level
echo 0 > /sys/class/gpio_sw/PE3/cfg;cat /sys/class/gpio_sw/PE3/data

Read GPIO_PE4 voltage level
echo 0 > /sys/class/gpio_sw/PE4/cfg;cat /sys/class/gpio_sw/PE4/data

Read GPIO_PE5 voltage level
echo 0 > /sys/class/gpio_sw/PE5/cfg;cat /sys/class/gpio_sw/PE5/data