TASH Smart Home Controller





Multi-Functional Controller for various applications

MT688 is a rugged and versatile Multi-function controller/terminal based on embedded WinCE .NET 6.0, equipped with large SVGA touch display, video camera, speaker, microphone, digital I/Os, total IP based connections, which targets the home automation, video surveillance, telephony Intercom, information kiosk. It can be derived to many applications:

- Job costing
- · Security control and monitor
- Mini- Kiosk
- e-Service (POS System, Hosting, POI, V2oIP)
- MES- Shop Floor application

Main Features

- WinCE 6.0 based operation
- SDK with DLLs to support for Video streaming, V2oIP
- Big touch screen with 8" color TFT-LCD and SVGA(800x600) resolutions
- Wired communication support USB(Host/Client), Ethernet (optional PoE) and serial ports (RS232/RS485)
- · Wireless communication supports optional 802.11b/g
- Optional CMOS camera with 2 M Pixels resolution
- · Speaker Audio output and Microphone audio input
- V2oIP with H.264 / MPEG4 format
- · One SD slot for memory storage
- Power-over-Ethernet (optional module)
- 4 relay outputs, 4 photo-coupler inputs (optional module)
- Watch dog function

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MT688 Specifications



- OS WinCE 6.0
- CPU Samsung S3C6410 @ 667MHz
- NAND Flash 256MB
- DDR 128MB
- Keyboard 6 hard keys
- Display 8" color TFT-LCD SVGA(800x600) with touch screen function
- One emergency bottom

Power Management

- Power input DC 12V/2A
- Backup battery One Micro-backup battery for keeping RTC data for 6 days

Communication I/O

- RS485/RS232 One RJ45 support, RS485+, RS485- / TXD, RXD, CTS, RTS
- Ethernet One RJ45 with optional PoE (Compliant IEEE 802.3af)
 SDIO One for WLAN or WWAN
- USB v1.1 Host & OTG 2.0

Audio/Video

- CCD Camera Optional Micron CMOS 2 M pixels resolution
- Speaker 2 watts stereo speaker
- Microphone Omni Direction, -42dB sensitivity, 60d S/N rate

Expansion

- SDIO Slot One (Not available when installing with WLAN or WWAN)
- SD For storage
- TV NTSC/PAL output function (Optional)
- DTMF dialer module (Optional)
- Four relays (2A 30 Vdc, 0.5A 250 Vac)
- Four digital photo-couplers (3.3V ~ 12V)
- One terminal block (12 pins) (Optional)

Outline and Appearance

- Dimension: 295mm (L)*43mm (W)*203mm(H)
- Weight: 1365.7g

Wireless Communication

• Optional 802.11 b/g

Programming SDK

- Video Streaming
- Monitor real-time video from MT688 and IP CAM
- Store Video (from MT688 and IP CAM) to NAS
- · Play recorded Video
- Follow RTSP, RTP/RTCP protocol
- Audio/Video Codec: G.711/AMR and MPEG4/H.264
- VoIP/V2oIP
- Support P2P and SIP Proxy
- Follow RFC3261 SIP protocol
- Follow RTP/RTCP, RFC1889/1890 protocol
- Audio/Video Codec G.711, A/u law, MPEG4
- Zigbee
- Follow 802.15.4 Zigbee stack
- Follow Zigbee Alliance "Home Control Profile"
- Presence server to log/control all device on single terminal
- Remote control/monitor by Web
- WinCE based I/O drivers, DLLs
- Development languages supported: C#, VB.NET, C++

Physical and Environment

- Temperature Operation $23^{\circ}F \sim 113^{\circ}F(-5^{\circ}C \sim 45^{\circ}C)$
- Temperature Storage $-4^{\circ}F \sim 140^{\circ}F(-20^{\circ}C \sim 60^{\circ}C)$
- Humidity 5% to 95% RH non-condensing

04/11 Rev.B

