



TOUCAN-0700 PRODUCT MANUAL
(TC-0700)

VER. 1.00

January 22, 2015

REVISION HISTORY

| Revision | Date | Originator | Notes |
|----------|------------------|------------|----------------------|
| 1.00 | January 22, 2015 | TechNexion | First public release |

TABLE OF CONTENTS

| | |
|--|----|
| 1. Introduction | 4 |
| 1.1. General Care and Maintenance | 4 |
| 2. Toucan-0700 Product Overview | 7 |
| 2.1. Toucan-0700 External Connectors..... | 7 |
| 2.2. Toucan-0700 Internal Board Connectors | 8 |
| 3. External Connectors..... | 9 |
| 3.1. Gigabit Ethernet Interface..... | 9 |
| 3.2. Power Input Connector..... | 9 |
| 3.3. Digital I/O Connector (GPIO)..... | 10 |
| 3.4. USB Host Connector | 10 |
| 3.5. HDMI (High Definition Multi-Media Interface)..... | 11 |
| 3.6. CAN Bus Connector (CAN) | 12 |
| 3.7. Serial Port / MDB Connector (SERIAL)..... | 13 |
| 3.7. USB OTG Connector..... | 14 |
| 3.8. Micro-SD Connector | 15 |
| 3.9. S1 Button | 15 |
| 3.10. RST Button | 15 |
| 4. Internal Connectors and Expansion Options | 16 |
| 4.1. Audio Connectors | 16 |
| 4.2. RTC Battery Connectors | 17 |
| 5. Ordering Partnumbers..... | 18 |
| 5.1. Custom Part Number Rule | 18 |
| 5.2. TC0700 without WiFi/BT Pack Content..... | 19 |
| 5.3. TC0700 with WiFi/BT Internal Antenna Pack Content | 20 |
| 5.4. TC0700 with WiFi/BT External Antenna Pack Content | 21 |
| 5.5. Toucan Accessories | 22 |
| 5.5.1. VESA35KIT Mount Kit (VESA MIS-C 35*75mm)..... | 22 |
| 6. Important Notice..... | 23 |
| 7. DISCLAIMER | 24 |

1. Introduction

1.1. General Care and Maintenance

Your device is a product of superior design and craftsmanship and should be treated with care.

The following suggestions will help you.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, allow it to dry completely.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not attempt to open the device.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Unauthorized modifications or attachments could damage the device and may violate regulations governing radio devices.

These suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

Regulatory information



Disposal of Waste Equipment by Users in Private Household in the European Union
This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment

for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



We hereby declare that the product is in compliance with the essential requirements and other relevant provisions of European Directive 1999/5/EC (radio equipment and telecommunications terminal equipment Directive).

TechNexion Ltd.

17F-1 No. 16 Jian Ba Road
Chung Ho City, 23511, Taipei, Taiwan R.O.C.
Phone : +886-2-8227 3585
Fax : +886-2-8227 3590

The Compliance of RoHS /REACH

We warrant that all the materials, products and components which provided by TechNexion to customer comply according directive EU RoHS (2002/95/EC), RoHS II amendment, REACH (1907/2006/ED) SVHC and Annex 17, JIG-101, as follows:

| | |
|---------------------------|-----------------|
| Cadmium (Cd) | : Under 100ppm |
| Lead (Pb) | : Under 1000ppm |
| Mercury (Hg) | : Under 1000ppm |
| Hexavalent Chromium (Cr6) | : Under 1000ppm |
| PBB | : Under 1000ppm |
| PBDE (include DecaBDE) | : Under 1000ppm |

RoHS Compliance Statement

We are aware of above directive and our product can meet the specification requirements above.



Company Stamp



Federal Communications Commission (FCC) Unintentional emitter per FCC Part 15
This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

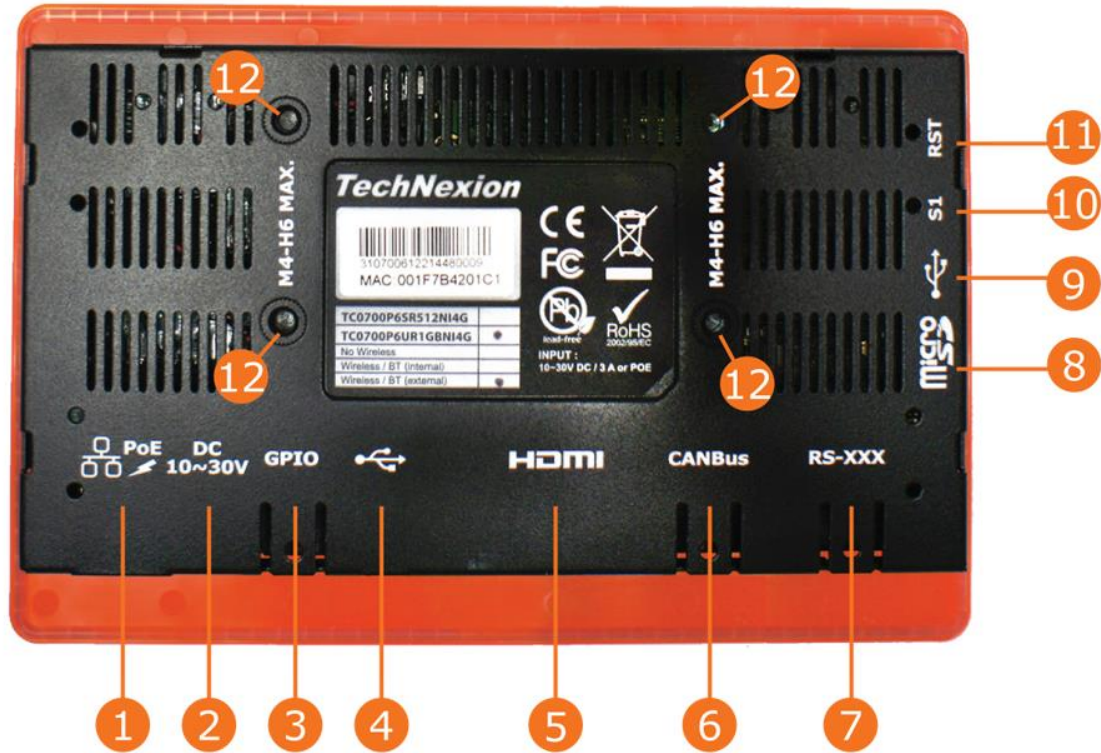


WARNING! To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

2. Toucan-0700 Product Overview

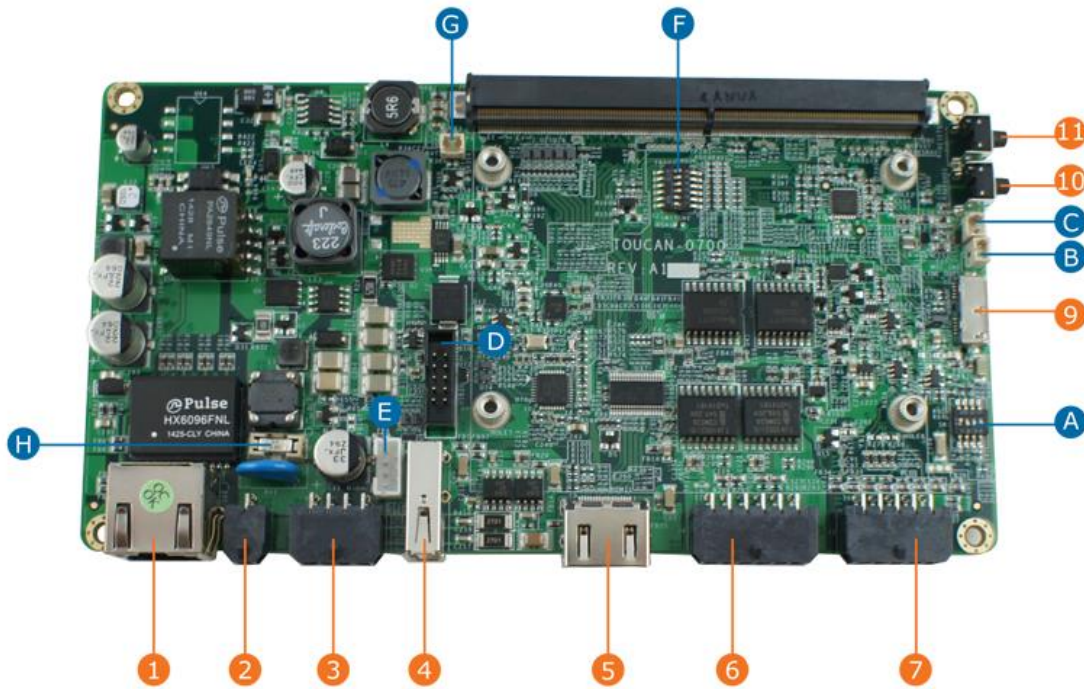
The Toucan-0700 has a number of internal expansion options and external connectors.

2.1. Toucan-0700 External Connectors



| Pin # | Description | Pin # | Description |
|-------|---------------------------|-------|------------------------------|
| 1 | Power over Ethernet RJ-45 | 2 | Power Input (10~30VDC) |
| 3 | GPIO | 4 | USB Host |
| 5 | HDMI connector | 6 | CAN Bus |
| 7 | RS-XXX (Serial Port) | 8 | Micro-SD cardslot |
| 9 | USB OTG | 10 | S1 Boot Select Button |
| 11 | Reset Button | 12 | VESA MIS-C Standard mounting |

2.2. Toucan-0700 Internal Board Connectors



External Connectors:

| Pin # | Description | Pin # | Description |
|-------|---------------------------|-------|------------------------|
| 1 | Power over Ethernet RJ-45 | 2 | Power Input (10~30VDC) |
| 3 | GPIO | 4 | USB Host |
| 5 | HDMI connector | 6 | CAN Bus |
| 7 | RS-XXX (Serial Port) | | |
| 9 | USB OTG | 10 | S1 Boot Select Button |
| 11 | Reset Button | | |

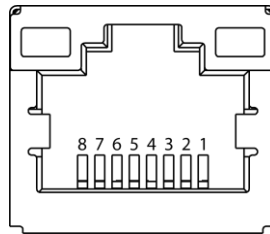
Internal Connectors:

| Pin # | Description | Pin # | Description |
|-------|-----------------------------------|-------|--------------------|
| A | DIP Switch for RS-XXX Serial Port | B | Line Out |
| C | Microphone | D | USB (2 port) |
| E | USB (shared with touchpanel) | F | Boot Select Switch |
| G | RTC Battery connector | H | Power Fuse |

3. External Connectors

3.1. Gigabit Ethernet Interface

The Toucan-0700 by default comes with a single Gigabit Ethernet RJ-45 connector and supports 802.3at Power over Ethernet functionality by connecting it to an 802.3at compliant POE switch or power injector.



| Pin # | 1000 Mbps | 100 Mbps | 10 Mbps |
|-------|-----------|----------------|----------------|
| 1 | MDI0+ | Transmit Data+ | Transmit Data+ |
| 2 | MDI0- | Transmit Data- | Transmit Data- |
| 3 | MDI1+ | Receive Data+ | Receive Data+ |
| 4 | MDI2+ | | |
| 5 | MDI2- | | |
| 6 | MDI1- | Receive Data- | Receive Data- |
| 7 | MDI3+ | | |
| 8 | MDI3- | | |

3.2. Power Input Connector

The Toucan-0700 can be powered with either Power over Ethernet over the RJ-45 LAN port or over the DC INPUT connector.

NOTE : Do not power the unit by DC input when you apply power as well over the Power over Ethernet (RJ45).



| Pin # | Signal | Description |
|-------|--------|-----------------------------|
| 1 | GND | Ground |
| 2 | VCC | DC Voltage input (10~30VDC) |

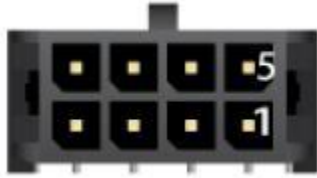
Header on Toucan-0700: Molex 43045-0200 (Micro-Fit 2pin)

Cable receptacle: Molex 43025-0200 Micro-Fit 2p with crimp contact Molex 43030-0007

Shielding with 6.3mm male spade terminal connector.

3.3. Digital I/O Connector (GPIO)

The Toucan-0700 has an GPIO Expansion header with the following pinout.



| Pin # | Signal | Description |
|-------|----------|------------------------------|
| 1 | DIG_IN1 | Input 1 |
| 2 | DIG_IN2 | Input 2 |
| 3 | GND_DIO | Ground for digital I/O |
| 4 | GND | Common Ground |
| 5 | DIG_OUT1 | Output 1 |
| 6 | DIG_OUT2 | Output 2 |
| 7 | VCC_DIO | Supply input for digital I/O |
| 8 | VCC | Supply Output |

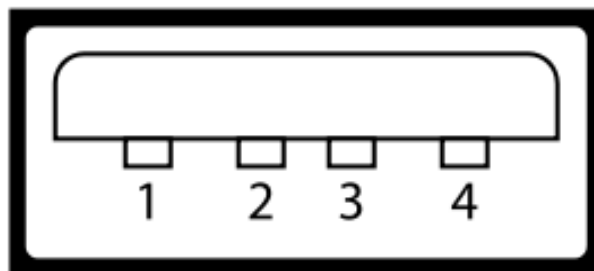
Header on Toucan-0700: Molex 43045-0800 (Micro-Fit 8pin)

Cable receptacle: Molex 43025-0800 Micro-Fit 8p with crimp contact Molex 43030-0007

Shielding with 6.3mm male spade terminal connector.

3.4. USB Host Connector

The Toucan-0700 has a single USB Host connector to connect to a USB peripheral such as a keyboard, mouse, USB storage device or USB hub.



| Pin # | Signal | Description |
|-------|--------|--|
| 1 | VBUS | 5V Universal Serial Bus Power |
| 2 | USB_D- | Universal Serial Bus port 2 differential pair signal |
| 3 | USB_D+ | |
| 4 | GND | Ground |

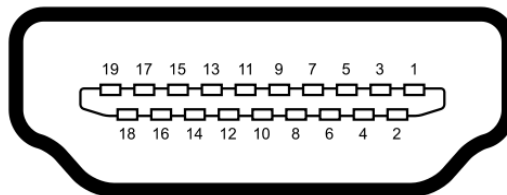
3.5. HDMI (High Definition Multi-Media Interface)

The HDMI interface available on the Toucan-0700 is based on the “HDMI transmitter” & “HDMI 3D TX PHY” integrated into the i.MX6 processor and can be configured to support a secondary display.

The HDMI supports the following standards & features:

- High-Definition Multimedia Interface Specification, Version 1.4a
- Digital Visual Interface, Revision 1.0
- HDMI Compliance Test Specification, Version 1.4a
- Support for up to 720p at 100Hz and 720i at 200Hz or 1080p at 60Hz and 1080i/720i at 120Hz HDTV display resolutions and up to QXGA graphic display resolutions.
- Support for 4k x 2k and 3D video formats
- Support for up to 16-bit Deep Color modes

For additional details, please refer to the “EDM1-CF-IMX6 Hardware Manual”.



| Pin # | Signal | Description | Pin # | Signal | Description |
|-------|------------|--|-------|-----------|---------------------------------|
| 1 | HDMI_D2+ | HDMI differential pair 2 signal | 2 | Shield_D2 | Shield of data pair 2 |
| 3 | HDMI_D2- | | 4 | HDMI_D1+ | HDMI differential pair 1 signal |
| 5 | Shield_D1 | Shield of data pair 1 | 6 | HDMI_D1- | |
| 7 | HDMI_D0+ | HDMI differential pair 2 signal | 8 | Shield_D0 | Shield of data pair 0 |
| 9 | HDMI_D0- | | 10 | HDMI_CLK+ | HDMI differential clock signal |
| 11 | Shield_CLK | Shield of Clock pair | 12 | HDMI_CLK- | |
| 13 | CEC | Consumer Electronics Control Interface | 14 | RSVD | Reserved |
| 15 | DDC Clock | DDC based control clock signal | 16 | DDC Data | DDC based control data signal |
| 17 | GND | Ground | 18 | +5V | 5V Power |
| 19 | HPD | Hot plug detect | | | |

3.6. CAN Bus Connector (CAN)

The Toucan-0700 has two isolated CAN Bus interfaces.



| Pin # | Signal | Description |
|-------|-----------|--|
| 1 | GND_CAN | Ground for CAN |
| 2 | CAN1_TERM | To enable CAN1 Termination, bridge with CAN1_H |
| 3 | CAN1_H | CAN Bus 1 high (-24~+24V) |
| 4 | CAN1_L | CAN Bus 1 low (-24~+24V) |
| 5 | CAN1_TERM | To enable CAN1 Termination, bridge with CAN1_L |
| 6 | N.A. | |
| 7 | GND_CAN | Ground for CAN |
| 8 | CAN2_TERM | To enable CAN2 Termination, bridge with CAN2_H |
| 9 | CAN2_H | CAN Bus 2 high (-24~+24V) |
| 10 | CAN2_L | CAN Bus 2 low (-24~+24V) |
| 11 | CAN2_TERM | To enable CAN2 Termination, bridge with CAN2_L |
| 12 | N.A. | |

Header on Toucan-0700: Molex 43045-1200 (Micro-Fit 12pin)

Cable receptacle: Molex 43025-1200 Micro-Fit 12p with crimp contact Molex 43030-0007

Shielding with 6.3mm male spade terminal connector.

3.7. Serial Port / MDB Connector (SERIAL)

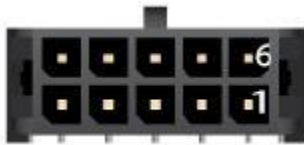
The Toucan-0700 has two serial ports and can be configured as follow.

The primary serial port can only be used as a standard RS-232.

The secondary port can be configured as RS-232, RS-422, RS-485 or utilize MDB protocol. By default this serial port is set as RS-232. Setting the Toucan-0700 in other mode will require to open the device and adjust the internal SW1 DIP switch settings on the Toucan circuit port.

The SW1 DIP switch can be found at location “A” in chapter 2.2. Toucan-0700 Internal Board Connectors of this manual.

| Pin # | RS-232 | RS-422 | RS-485 | MDB |
|-------|--------|--------|--------|-----|
| 1 | ON | OFF | OFF | OFF |
| 2 | OFF | ON | OFF | OFF |
| 3 | OFF | OFF | ON | OFF |
| 4 | ON | OFF | OFF | ON |



RS-232 + RS-232

| Pin # | Signal | Description |
|-------|------------|---------------------------------|
| 1 | GND | Ground |
| 2 | RS232_TXD1 | Port#1 Transmit data (output) |
| 3 | RS232_RXD1 | Port#1 Receive data (input) |
| 4 | RS232_RTS1 | Port#1 Request-to-send (output) |
| 5 | RS232_CTS1 | Port#1 Clear-to-send (input) |
| 6 | GND | Ground |
| 7 | RS232_TXD2 | Port#2 Transmit data (output) |
| 8 | RS232_RXD2 | Port#2 Receive data (input) |
| 9 | RS232_RTS2 | Port#2 Request-to-send (output) |
| 10 | RS232_CTS2 | Port#2 Clear-to-send (input) |

RS-232 + RS-422

| Pin # | Signal | Description |
|-------|------------|---|
| 1~6 | | Identical as above |
| 7 | RS422_TXD+ | RS-422 Transmit positive data signal (output) |
| 8 | RS422_RXD- | RS-422 Receive negative data signal (input) |
| 9 | RS422_RXD+ | RS-422 Receive positive data signal (input) |
| 10 | RS422_TXD- | RS-422 Transmit negative data signal (output) |

RS-232 + RS-485

| Pin # | Signal | Description |
|-------|--------|-----------------------------|
| 1~6 | GND | Identical as above |
| 7 | RS485+ | RS-485 positive data signal |
| 8 | N.A. | |
| 9 | N.A. | |
| 10 | RS485- | RS-485 negative data signal |

RS-232 + MDB

| Pin # | Signal | Description |
|-------|------------|-----------------------------------|
| 1~6 | GND | Identical as above |
| 7 | MDB_TXD | MDB transmit data signal (output) |
| 8 | MDB_RXD2 | MDB receive data signal (input) |
| 9 | MDB_WakeUp | MDB wakeup signal (output) |
| 10 | | MDB wakeup pull up VCC (0~5V) |

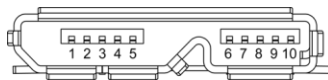
Header on Toucan-0700: Molex 43045-1000 (Micro-Fit 10pin)

Cable receptacle: Molex 43025-1000 Micro-Fit 10p with crimp contact Molex 43030-0007

Shielding with 6.3mm male spade terminal connector.

3.7. USB OTG Connector

The Toucan-0700 has an USB OTG connector that can be used to connect an host computer to the unit for programming and update purposes.



| Pin # | Signal | Description |
|-------|------------|--|
| 1 | VBUS | 5V Universal Serial Bus Power |
| 2 | USB_D- | Universal Serial Bus port 2 differential pair signal |
| 3 | USB_D+ | |
| 4 | USB_OTG_ID | Universal Serial Bus On-The-Go detection signal |
| 5 | GND | Ground |
| 6 | StdA_SSTX- | Universal Serial Bus Superspeed transmitter differential pair signal |
| 7 | StdA_SSTX+ | |
| 8 | GND | Ground |
| 9 | StdA_SSRX- | Universal Serial Bus Superspeed receiver differential pair signal |
| 10 | StdA_SSRX+ | |

3.8. Micro-SD Connector

The Toucan-0700 features a micro-SD cardslot which is connected to the Freescale i.MX6 integrated “Ultra Secured Digital Host Controller” (uSDHC).

The following main features are supported by uSDHC:

- Compatible with the MMC System Specification version 4.2/4.3/4.4/4.5.
- Conforms to the SD Host Controller Standard Specification version 3.0.
- Compatible with the SD Memory Card Specification version 3.0 and supports the “Extended Capacity SD Memory Card” .
- Compatible with the SDIO Card Specification version 3.0.
- Supports 1-bit / 4-bit SD and SDIO modes, 1-bit / 4-bit

The MMC/SD/SDIO host controller can support a single MMC / SD / SDIO card or device.

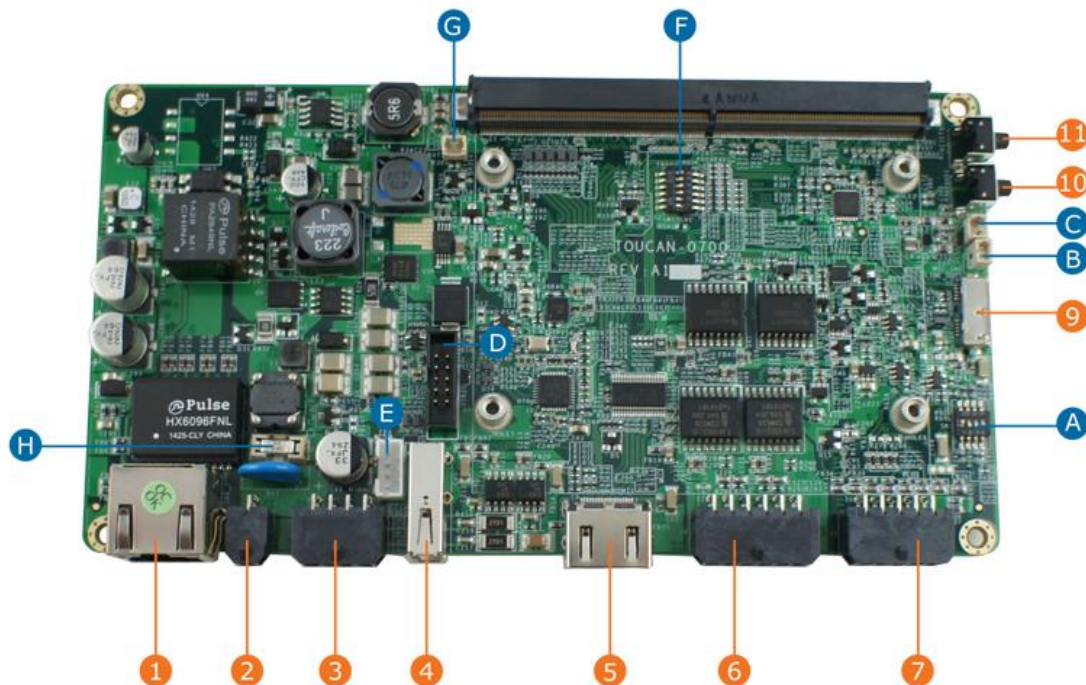
3.9. S1 Button

The Toucan-0700 by default boots the unit from internal flash storage (eMMC). By pressing the “S1” button before applying power to the unit and keep the button pressed for 10 seconds. The unit will boot from alternative boot media (the SD cardslot).

3.10. RST Button

The Toucan-0700 features a “RST” button for system reset.

4. Internal Connectors and Expansion Options



| Pin # | Description | Pin # | Description |
|-------|-----------------------------------|-------|--------------------|
| A | DIP Switch for RS-XXX Serial Port | B | Line Out |
| C | Microphone | D | USB (2 port) |
| E | USB (shared with touchpanel) | F | Boot Select Switch |
| G | RTC Battery connector | H | Power Fuse |

4.1. Audio Connectors

The Toucan-0700 has two internal audio connectors to connect a speaker or microphone. (Marked B / C)

The line-out signal is pre-amplified with a Texas Instruments TPA2025D1 2 Watt amplifier.

Line-Out (B):

| Pin # | Signal | Description |
|-------|--------|------------------------------|
| 1 | SP+ | Speaker Positive Signal |
| 2 | SP- | Speaker Analog Ground Signal |

Microphone (C):

| Pin # | Signal | Description |
|-------|--------|--------------------------|
| 1 | MIC | Microphone Signal |
| 2 | AGND | Microphone Ground Signal |

4.2. RTC Battery Connectors

The Toucan-0700 has an internal RTC backup battery. (Marked G)

| Pin # | Signal | Description |
|-------|---------|---|
| 1 | GND | Ground |
| 2 | RTC_VCC | 3V (connect to standard CR2032 battery) |

5. Ordering Partnumbers

The Toucan-0700 is available in a number of configurations. Please contact your TechNexion sales contact window or distributor for options and availability.

5.1. Custom Part Number Rule

The Toucan-0700 can be ordered in custom tailored to meet special application requirements and conditions according to the following custom part number creation rules.

Custom part numbers carry minimum order quantities. Please connect with your TechNexion distributor or account manager for conditions and availability.

Part number format:

TC0700-P-I-BW-6S-R1GB-NI4G-XX-xxxx

| Interface | Code | Description |
|---------------------|-------------------------|---|
| Main Product Code | TC0700 | Toucan-0700 Series main product code |
| Power Over Ethernet | - | Gigabit Ethernet without PoE function |
| | P | Gigabit Ethernet with PoE function (Default) |
| Wireless Networking | - | No wireless communication option |
| | IBW | 802.11bgn + Bluetooth 4.0 with internal antenna |
| | EBW | 802.11bgn + Bluetooth 4.0 with external dipole antenna |
| Processor | 6S | Freescale i.MX6 Solo |
| | 6U | Freescale i.MX6 Duallite |
| | 6D | Freescale i.MX6 Dual (special project only) |
| | 6Q | Freescale i.MX6 Quad (special project only) |
| Memory | R512 | 512 MB DDR3 |
| | R1GB | 1GB DDR3 |
| | R2GB | 2GB DDR3 (not available with Freescale i.MX6 Solo) |
| Storage | NI4G | eMMC 4GB (Default) |
| | NIxG | Other capacities of eMMC are possible (8GB, 16GB, 32GB, 64GB) |
| Color Code | BK | Black (Pantone Black C) |
| | BL | Blue (Pantone 312 C) |
| | GN | Green (Pantone 356 C) |
| | GY | Gray (Pantone 5477 C) |
| | OR | Orange (Pantone 1665 C) |
| | RD | Red (Pantone 1805 C) |
| | WT | Ivory White (Pantone 705 C) |
| YL | Yellow (Pantone 1225 C) | |
| Custom ID | xxxx | Custom Partnumber ID for customized software loader and special component (BOM) |

5.2. TC0700 without WiFi/BT Pack Content



| Item | Partnumber | Description |
|------|--------------|---|
| 1 | TC0700P6xxxx | 7 inch POE HMI PCAP touch system with Freescale i.MX6 |
| 2 | Accessoires | 6 mounting hooks |
| | | 6 screws (M3) |
| | | 6 mounting poses |
| | | Power latch cable |

This product is available in different processor, memory and storage configurations and color frames.

5.3. TC0700 with WiFi/BT Internal Antenna Pack Content



| Item | Partnumber | Description |
|------|-----------------|---|
| 1 | TC0700PIBW6xxxx | 7 inch POE HMI PCAP touch system with Freescale i.MX6 and internal wireless/bluetooth antenna |
| 2 | Accessoires | 6 mounting hooks |
| | | 6 screws (M3) |
| | | 6 mounting poses |
| | | Power latch cable |

This product is available in different processor, memory and storage configurations and color frames.

5.4. TC0700 with WiFi/BT External Antenna Pack Content



| Item | Partnumber | Description |
|------|-----------------|---|
| 1 | TC0700PEBW6xxxx | 7 inch POE HMI PCAP touch system with Freescale i.MX6 and external wireless/bluetooth antenna connector |
| 2 | Accessoires | 4.5 dB, 2.4/5 GHz, black color antenna |
| | | 6 mounting hooks |
| | | 6 screws (M3) |
| | | 6 mounting poses |
| | | Power latch cable |

This product is available in different processor, memory and storage configurations and color frames.

5.5. Toucan Accessories

5.5.1. VESA35KIT Mount Kit (VESA MIS-C 35*75mm)



| Item | Partnumber | Description |
|------|------------|---|
| 1 | VESA35KIT | VESA 35 MIS-C compliant mounting bracket (device) |
| | | VESA 35 MIS-C compliant mounting bracket (wall) |
| | | 4 times M4 screws |

NOTE: Screws for wall side locking are not included (wood/concrete screws should be used depending on surface).

6. Important Notice

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TechNexion Ltd.
16F-5, No. 736, Zhongzheng Road,
ZhongHe District, 23511, New Taipei City, Taiwan
Phone : +886-2-82273585
Fax : +886-2-82273590
E-mail : sales@technexion.com
Web : <http://www.technexion.com/>