



High quality HMI with 10.1" and optional frame.

- ▶ Robust and compact solution for human-machine interaction
- ▶ Powerful and energy-saving DHCOM module as computing unit
- ▶ Use in industrial applications thanks to EN6100-6-2 and EN6100-6-3
- ▶ No heat sink required thanks to 5-cent cooling solution
- ▶ Thanks to the family concept, the module can be replaced by a higher-performance module at any time

Technical Data

CPU details

| | |
|-----------|---|
| CPU name | NXP i.MX6 Solo default, other processors with DHCOM standard available on request |
| CPU type | ARM Cortex-A9 |
| CPU clock | up to 800 MHz |

Memory

| | |
|---------------------------|----------|
| DDR3 RAM | 1024 MB |
| eMMC flash | 4 GB |
| E2Prom | 128 Byte |
| Micro SD socket available | ✓ |
| External RTC available | ✓ |

Connectivity

| | |
|-------------------|---|
| USB host | 1x High-speed |
| Ethernet | 10 / 100 Mbit/s |
| Serial interfaces | 1x RS232 (Rx, Tx, Rts, Cts) 1x RS485 (available instead of RS232) |
| Input | 1x |
| Output | 1x |
| CAN | 1x 1 Mbit/s |

Multimedia

| | |
|----------------------|--|
| 2D 3D GPU | 2D: Vivante GC320 for i.MX6 Solo 3D: Vivante GC880 with 1 shader for i.MX6 Solo |
| 2D 3D Acceleration | Yes Yes |
| Display diagonal | 10.1 inch |
| Resolution | 1280 x 800 px |
| Color depth | 16.7M |
| MTBF | 50.000 hrs |
| Touch | PCAP |

Operating system

| | |
|------------------|---|
| BSP | Linux (Debian, Yocto) |
| Debug interface | JTAG interface on module |
| Setup and config | Get our free web browser to configure the DHMI or to display any website. |

Physical

| | |
|------------------------|---|
| Dimensions | 257 x 173 x 35 mm frameless 272 x 193 x 38 mm with frame |
| Weight | 860,5 g (frameless) 1157,5 g (with frame) |
| Power supply | 24.0 VDC |
| Typ. power consumption | 15.0 W |
| Operating temperature | 0 to +50 °C |
| Storage temperature | 0 to +70 °C |
| Moisture | +10 % to +80 % (non-condensing) |
| Certifications | EN 61000-6-2 EN 61000-6-3 |

Configurations

| Item Number | Model (other configurations on request) | Product description |
|-------------|--|---|
| FD00055 | DHMI-101-P-FB-STM32MP157C-R102-F0819-E-CAN-IO-RS232-C-01P1 | DHMI, 10.1", PCAP touch, framed black, STM32MP157C, 1024 MByte, 8192 MByte eMMC, ethernet, CAN, additional IOs, RS232, 0 to +50 °C, revision 01, picoITX1 |

* Other configurations on request

What is the model number for ordering?

DHMI-INCH-T-HO-CPU-Rxxx[-Fxxx][-E[x]][-CAN][-IO][232][485][-LON][-W][BT][-LTE]-X-01P1

| | |
|---------|---|
| INCH | 040 = 4.3", 070 = 7.0", 080 = 8.0", 101 = 10.1" |
| T | R = resistive touch, P = PCAP touch |
| HO | OF = Open Frame, BO = Boxed, RM = Rear Mount, FB = Framed Black, FM = Framed Metallic |
| CPU | IMX6S = i.MX6 Solo, IMX6D = i.MX6 Dual, IMX6DL = i.MX6 Dual Lite, IMX6Q = i.MX6 Quad STM32MP157C = STM32MP157C |
| Rxxx | RAM memory size in 10 MB steps (i.e. R006 = 64 MB, R012 = 128 MB, ...) |
| X | Commercial temperature range (0 °C - 70 °C): C, Industrial temperature range (-25 °C - 85 °C): I |
| 01Px | Revision 01; P[x] = dhpico ITX type [1,2,...] example: 01P1 = 487-600 dhpico ITX, 02P1 = 487-700 dhpico ITX |
| Options | |
| Fxxx | Flash memory size in 10MB steps (i.e. 0006 = 64MB, 0012 = 128MB, 0...) |
| E[x] | E = Ethernet, E[2] = Dual Ethernet |
| CAN | CAN port |
| IO | additional IOs |
| 232 | RS-232 interface |
| 485 | RS-485 interface |
| LON | LON interface |
| W | W = WiFi |
| BT | BT = Bluetooth |
| LTE | LTE interface |