



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