Human Machine Interface
TFT/HB057RU41 Series (Build-in)
Resistive touch panel PC with Vortex86DX2 processor

Resistive touch

IP65 front

2x UBS

2x LAN

RS232
CAN

RS232
RS485

24 VDC
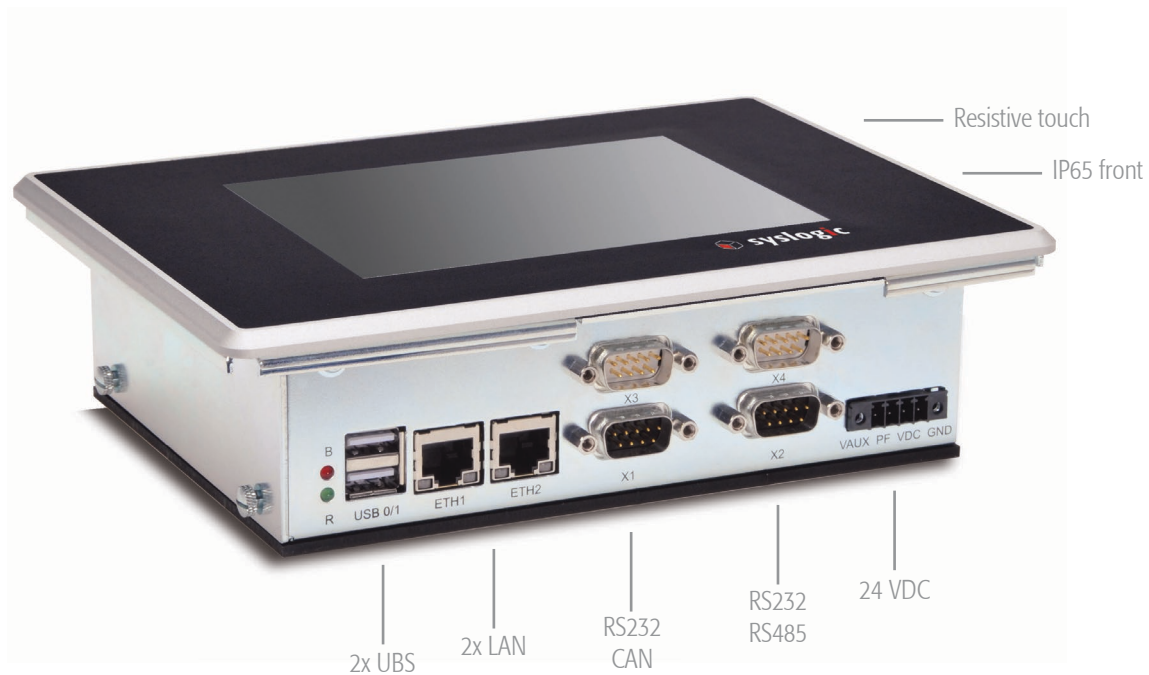
TFT/HB057RU41

A robust industrial touch panel PC with a 5.7 inch display and resistive touch. This version comes with a x86 Vortex86DX2 CPU directly attached to the display housing. The fan less devices are well suited for heavy industrial use. Designed with IP65 protection at the front.

- Extended temperature range
- 24/7 continuous operation
- Maintenance free
- Long term availability
- Rugged and no moving parts
- LED Backlight

Windows Embedded
Standard 2009

Debian 6.0

CE

Product Highlights

Watchdog
Temperature supervision
Operating temperature -20...+60°C
Real Time Clock
Persistent Flash BIOS
ESD- protection on all interfaces
No active cooling required
No moving parts

Product Feature

5.7 inch display
Resistive touch technology
Industrial Vortex86DX2 processor
up to 800MHz
RAM soldered on Board
Socket for CFast / SD
CAN and RS485 galv. isolated
Ethernet, USB, RS232
Brightness control (Software)

Markets / Applications

Industrial Automation
Traffic control
Marine
Railway industry
Transportation and vehicle constriction
PLC replacement
Cleantech

Your partner for reliable embedded computer and display solutions.

	Order Code TFT/HB057RU41F08-N101	MySyslogic [1]
Processor / Performance		
Vortex86DX2 800MHz	•	•
Memory		
32kB L1 cache (16kB instruction / 16kB data), 256kB L2 cache	•	•
512MB DDR2 SDRAM [1]	optional	optional
1GB DDR2 SDRAM	•	•
TFT Display		
Screen size [inch]	5.7	5.7
Resolution [pixel]	640 x 480 (VGA)	640 x 480 (VGA)
Brightness (LED Backlight) [cd/m²]	400	400
Contrast ratio 350:1	•	•
Viewing angle	H-55/52° V-65/65°	H-55/52° V-65/65°
Color performance	262K	262K
Touch Screen		
4-wire resistive touch technology	•	•
Features		
Real time clock PC compatible	•	•
Watchdog	•	•
Temperature supervisor	•	•
Intelligent power management	•	•
Battery backup	•	•
Goldcap backup[1]	optional	optional
Interfaces		
Socket for CFast	1	1
Socket for SD Card	1	1
USB version 2.0	2	2
USB version 2.0 [2]	2	2
Ethernet (ETH1) 10/100Mbit	1	1
Ethernet (ETH2) 10/100/1000Mbit (Intel 82574)	1	1
RS232 ESD protected (DSUB9)	2	up to 4 [3]
RS232 ESD protected [2]	2	
RS422 / RS485 ESD protected, isolated (DSUB9)	1	up to 2 [3]
CAN version 2.0b, SJA1000, ESD protected, isolated (DSUB9)	1	up to 2 [3]
PS/2 Keyboard interface [2]	1	1
I2C bus [2]	1	1
PC/104 bus [2]	1	1
HD Audio / Speaker [2]	1	1
Technical Data		
Dimensions W x H x D [mm]	204.5 x 152 x 55	204.5 x 152 x 55
Front cut out [mm]	186 x 138 $^{-0/+2}$	186 x 138 $^{-0/+2}$
Wall thickness [mm]	1 to 4.5	1 to 4.5
Net weight in gram	~1400	~1400
Input Voltage 9 ... 30VDC non-isolated	•	•
Current consumption typ. in mA @ 24V without Add-Ins	~330	~330
Power consumption typ. in Watts @ 24V without Add-Ins	~7.9	~7.9
Enviromental Conditions		
Standard operating temperature (ambient) -20°C ... +60°C	•	•
Storage temperature -40 ... +80° C	•	•
Humidity 20 to 90% non condensing	•	•
Protection standard: Front IP65	IP00 rear	•	•
Shock: designed to meet EN60068-2-27	•	•
Vibration: designed to meet EN60068-2-64	•	•
EMI-Conformity EN-61000-6-2/61000-6-4, EN-55022/55024, EN50121-3-2	•	•
MTBF ~250 000h (28.5 Years) ^{excluding display, excluding battery}	•	•

[1] Please contact factory for minimum order quantities.
[2] On internal connector
[3] Either RS232, RS485 or CAN (6 in total)

For further information and support:
info@syslogic.com
support@syslogic.com
www.syslogic.com

+49 7741 9671-420   **Germany and Austria**
+41 56 200 90 40   **Switzerland**

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industrial computing