

HMI-3570 Mobile Display Controller

The compact 5.7" universal display device with integrated IEC 61131-3 controller in IP 67 housing is powered by an ARM 11 processor with target-optimized Linux OS. The user application can be loaded and executed in less than 4 seconds after power-on.

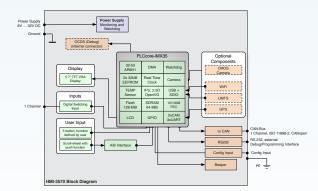


The increasing use of modern communication devices such as smart phones and tablet PC in private sectors leads to an increasing expectation from users toward handling machines and vehicles. Multimedia-capable devices are gradually becoming a must-have feature for interfacing and operating machine control systems.

Such multimedia-capable systems include the use of camera devices and the increasing making use of remote controlled technologies. As a result, modern operator devices do not only have the needed elements to control vehicles functions. In fact, there is an increasing demand to have wireless communication technologies in such devices to download and display internet content such as maps and geological data as well as to upload maintenance and position data to fleet management systems.

To solve the contradiction between the extended functionality and machine cost, flexible components and well-established communication standards are required to enable easy interconnection of devices from multi-vendors within the machine control system. By using CAN-bus based networks, even complex control structures can be realized without a huge effort. SYS TEC electronic offers professional engineering and development services that helps you to maintain a sound headstart towards your competing market players.

We do not only provide advanced products but also offer electronic product designs to OEM customers for the incorporation into their own product lines.



About SYS TEC electronic

SYS TEC electronic is a system house for customized electronic systems. Founded in 1990 in Germany, SYS TEC electronic has more than 25 years of experience providing a comprehensive service from consulting to OEM integration and series production or transfer of technology to our customers in the field of industry, transportation, communication, energy and computing.

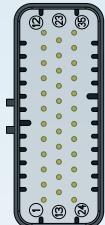


Feature Overview

CPU	Freescale i.MX357 MCU, 522MHz				
Supply Voltage	832V				
Current Consumption	apx. 5W				
Protection Measures	Short circuit protected against VBAT and Ground Reverse polarity on power supply/battery				
Diagnostic capabilities	On-board temperature sensor, On-board voltages Error history logging				
Other Signals	Ignition signal input (K15) Software independent watchdog Configuration Input Signal				
Programming/ Software Support	IEC 61131-3 with CANopen Manager Support C/C++ programming in Linux Linux OS with <4sec boot-up time				
Memory	128MiB Flash, 64MiB RAM				
Operating Temperature	-30°C +70°C				
Communication Interfaces	1x CAN (with CANopen CiA 302) 1x RS 232 1x 10/100Mbps Fast Ethernet				
Display	5.4" TFT with LED backlight Resolution: 640x480 (VGA) Brightness: max 500 cd/m ² Backlight controllable by user application				
Visualization	SpiderControl Target Visualization with Multi-Byte character support Optional Web-based visualization via Ethernet				
User Input / Output Elements	5 keys (function configurable by user application) Scroll Wheel with push button Beeper (controllable by user application)				
Enclosure	Aluminium diecast, IP67 according to EN 60529 Water-proof pressure compensation membrane				
Development Environment	IEC 61131-3 and SpiderControl Target Visualization OpenPCS with SYS TEC electronic specific extensions SpiderControl PLC-Editor for Windows C/C++ Applications: Complete ready-to-use toolchain with Eclipse IDE in a Linux-based Virtual Machine (VMware [®])				
Conformity	CE acc.to 2004/104/EC				

Connector Pinout

12 VBAT+			35	VBAT-	
77 SIO0 TX	23	DIO	7£	CFG0	
10 SIOO RX	22	GND	33	GND	
9 n.c.	21	n.c.	32	n.c	
8 n.c.	20	n.c.	31	n.c	
7 n.c.	19	n.c.	0E	n.c	
6 SIO1 RX	18	n.c.	29	n.c	
5 n.c.	21	GND	28	SI01 TX	
4 n.c.	16	n.c.	27	n.c	
з п.с.	15	n.c.	26	n.c	
CAN0_H CAN0_H	14	CAN0_L CAN0_L	22	GND	
7 CAN0_H	13	CAN0_L	24	GND	



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Mating Plugs: (tyco)

C-776164 35-pin, AMPSEAL

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