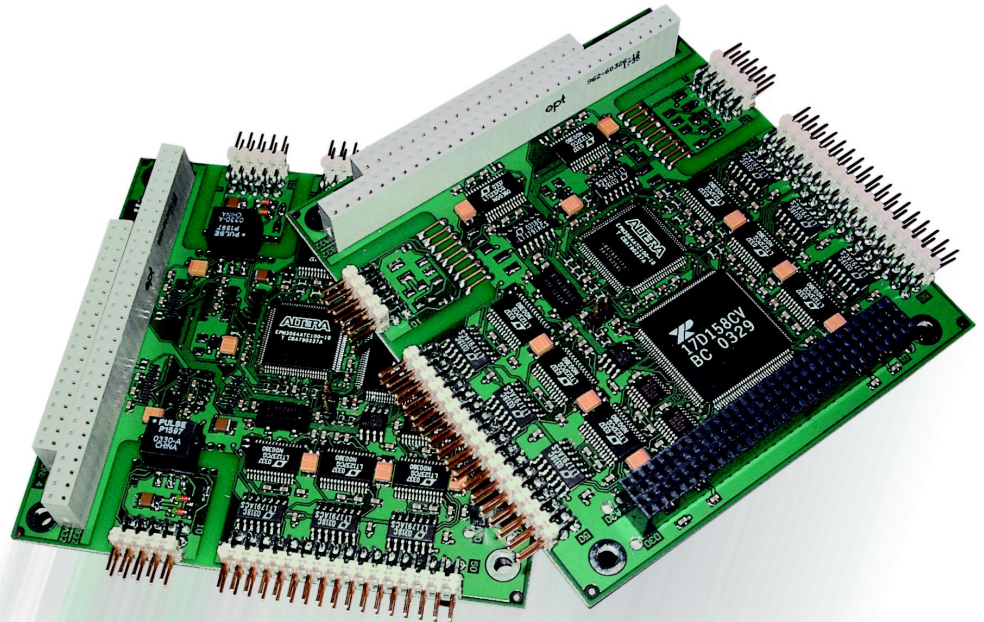




4 or 8 x RS232/RS485/RS422 on a single PC/104-Plus Module

General Description

The Octal Serial Communication Interface (OSCI) board family provides on a single PC/104-Plus module up to eight serial lines. The interface mode of all eight ports are freely selectable either for RS232 or RS485/422. The configuration of all ports is done via software and can be changed at any time. All interfaces work with standard baudrates up to 250kbaud. Optional the RS485/422 interfaces are available with up to 6.25Mbaud and 60V fail safe. Further more galvanic isolation (500Vrms) on up to two RS485/422 ports is available. All serial interfaces are accessible on 2.54mm headers and allow an easy connection to standard serial DSUB-9 connectors.



OSCI Specialties

- Up to eight serial lines
- All ports freely selectable as RS232 or RS485/422
- Galvanic isolation on up to two ports available (500 Vrms)
- Optional: RS485/422 with up to 6.25Mbaud and 60V fail safe
- Extended temperature option -40°C to +85°C
- Drivers are freely available for Windows NT, 2000, XP, Linux and VxWorks, QNX

OSCI versions

Product number	Interface Options			
	Selectable RS232 or RS485/422	Fix RS232	Fix RS485/RS422	Galvanic isolated RS485/422
* Available from stock				
OSCI-8MIX* / OSCI-4MIX*	8/4*			
OSCI-8RS2 / OSCI-4RS2		8/4		
OSCI-8RS4 / OSCI-4RS4			8/4	
OSCI-6MIX-2G* / OSCI-3MIX-1G	6/3*			2/1
OSCI-6RS2-2G / OSCI-3RS2-1G		6/3		2/1
OSCI-6RS4-2G / OSCI-3RS4-1G			6/3	2/1

Those features make

OSCI to the ideal expansion for any industrial solution where you need many serial RS232 and/or RS485/422 ports. The OSCI can be used in any embedded system independent whether it is being used in a rugged, hot or other difficult environment. MPL has the solution you need and you looked for.

Cable kits with DSUB-9 and/or screw terminal block are available from stock. For further customer specific versions please contact MPL.

Technical Features OSCI

Board Key Data

RS232	Full modem interfaces	up to 250 kBaud
RS485	2-wire half-duplex interfaces	up to 250 kBaud optional up to 6.25 Mbaud
RS422	4-wire full-duplex interfaces	up to 250 kBaud optional up to 6.25 Mbaud
Galvanic isolation	on up to two RS485/422 ports	until 500Vrms
Host Interface	PC/104-Plus compliant PCI specification revision 2.3 compliant	stackthrough module supports both 5.0V and 3.3V signaling
Power	Runs with 5V input power only	

Physical / Power

Size (length x width x height)	90.2 x 95.9 x 11 mm 3.550 x 3.775 x 0.435 inch	PC/104-Plus compliant stackthrough module
Weight	90 g / 0.2 lbs	fully equipped OSCI-6MIX-2G
Power	+5 VDC \pm 5%	input over PCI connector
Power consumption	Typically 0.7 W	OSCI-8MIX
Temperature Range	-20°C up to 70°C	optional -40°C up to 85°C
Humidity	5% - 95% non condensing	optional coating available

Operating Systems

Microsoft Windows NT 4.0, 2000, XP

Linux

VxWorks

WindowsCE

QNX

The OSCI is fully developed, designed and produced by MPL AG in Switzerland.

Other MPL PC/104 Peripherals

Product Family	Function	Form Factor
LAN104	Single & dual 10/100 Mbit Ethernet modules	PC/104-Plus
SPIDERLAN	Ethernet-Switch modules with up to 8 ports	PC/104-Plus
PATI	PowerPC controlled Analog- and Timer-IO module	PC/104-Plus
PCCARD	PCMCIA PC Card adapter with two slots	PC/104-Plus
IDE2CF / IDE2PCC	IDE to CompactFlash or IDE to PC Card adapter	PC/104

Other MPL Products

Embedded CPU Boards	Embedded, rugged Industrial CPU boards with PowerPC, x86 and ARM CPU's. Products with lowest power consumption, long-term availability and highest reliability.
Industrial PCs	Fanless, rugged Packed Industrial PCs with Intel CPUs in various housings and with many accessories. Products for extended temperature (-40° up to +75°C) and with long-term availability.
Panel PCs	Fanless, IP65/NEMA4 protected Panel PCs (all around). Solutions with 6" - 19" LCDs and Touch in special aluminum or stainless steel case.
Engineering & Support	Professional engineering, support and consulting through MPL engineers on Hardware and Software.

MPL AG is an ISO9001 certified company