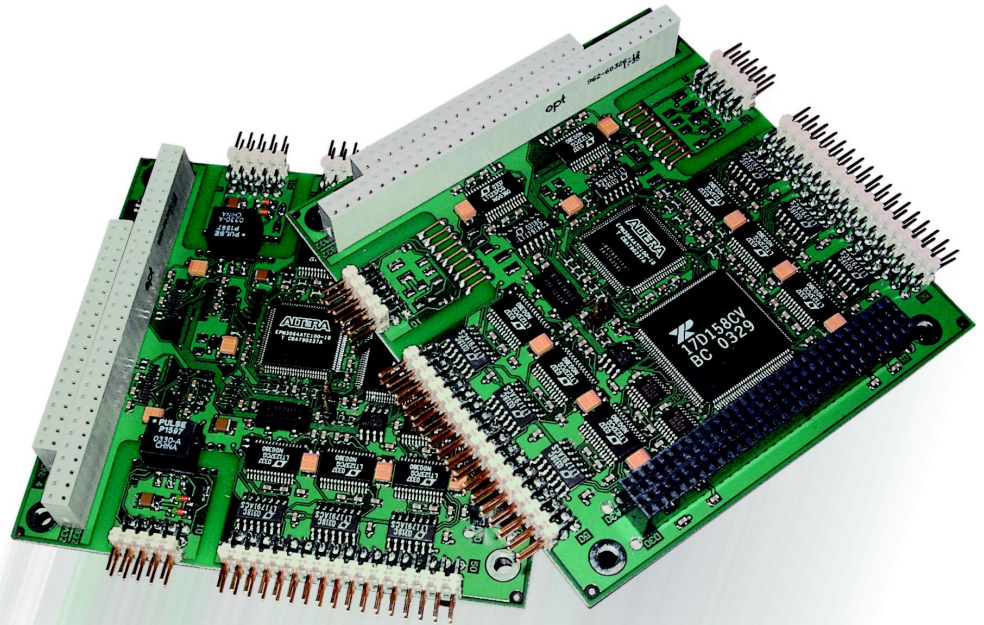




# 4 or 8 x RS232/RS485/RS422 on a single PC/104-Plus Module

## 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