

XBT ZG9292  
MPI Bus  
HMI Adapter  
Quick Reference Guide



### Design

The XBT ZG9292 permits connection of operator terminals or visualisation software from a serial interface (RS232 level, 4.8... 115Kbaud) with an HMI protocol to an MPI bus (RS485 level, 187.5Kbaud).

The XBT ZG9292 has a 1.2m (3.94 feet) long connecting cable, which can be directly plugged into the CPU connector of the programmable controller or at any other point in the MPI network.

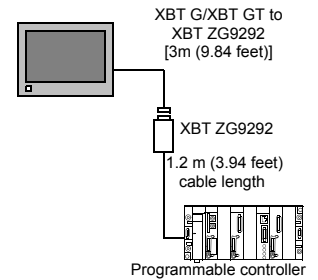
A female nine-way D-sub connector is contained in the housing of the XBT ZG9292 and a connecting cable with 9 pin female Sub D connector and 3m (9,84 feet) length to directly connect to the XBT GT is included.

To connect an XBT G Terminal, a standard SubD9 to SubD25 adapter must be added between the connecting cable and XBT G.

The XBT ZG9292 receives its power supply from the CPU via the MPI cable. If 24VDC are not available at the point of connection or if several XBT ZG9292 are connected to a CPU at the same time, 24VDC can be fed from an external source.

The connection to the MPI bus can be extended with an extension cable.

A wall bracket for standard rail is supplied with the XBT ZG9292.



### Transmissions

The XBT ZG9292 supports the Siemens HMI protocol. Data bytes, marker, input and output bytes, counters, timers, marker bits, and dates/times can be transmitted.

### Error code

For the error codes of the XBT ZG9292, please consult Siemens' HMI documentation.

### LED displays

The three LEDs on the top of the device provide you with information about the operating status of the XBT ZG9292. You can use them to locate sources of error quickly.

The LEDs have three different states: Off, on, blinking. If the LED is off, none of the labelled states applies.

	ON	OFF	Blinking
<b>Upper LED</b>	The XBT ZG9292 is being powered with 24VDC and the processor is running.	The XBT ZG9292 has no power or is faulty.	Not Significant.
<b>Center LED</b>	The XBT ZG9292 registered in the MPI network.	Not Significant.	Not Significant.
<b>Lower LED</b>	The XBT ZG9292 has established a connection.	Not Significant.	The XBT ZG9292 is transmitting data.

## Technical data

<b>Dimensions</b>	105 x 53 x 29 mm (LxWxH) (4.13 x 2.09 x 1.14 inches)
<b>Weight</b>	Approx. 180g (6.35 ounce) (incl. MPI cable & connector)
<b>MPI Interface</b>	
Type:	RS485
Transmission rate:	187.5 kbit/s
Cable:	1.2m (3.94 feet), no terminating resistors
Connection:	Connector, SUB D 9-way
<b>Power supply</b>	
Voltage:	+24VDC $\pm$ 25% from the programmable controller or external infeed (polarized)
Current consumption:	70mA (typ.)
<b>Degree of protection</b>	IP 30
<b>Electromagnetic compatibility (EMC)</b>	
Interference emission	Class B acc. to EN55022
Interference immunity on signal lines	$\pm$ 2kV acc. to EN61000-4-4
Interference immunity ESD	$\pm$ 6kV contact discharge EN61000-4-2 $\pm$ 8kV air discharge EN61000-4-2
RF radiation fields	10V/m acc. to EN61000-4-3
Conducted RF interference	10V acc. to EN61000-4-6
<b>Environmental conditions</b>	
Temperature during operation	-20°C to +60°C (-4°F to +140°F)
Temperature storage/transport	-20°C to +60°C (-4°F to +140°F)
Relative humidity operation	5% to 85% at 30°C (86°F) (no condensation)
Relative humidity storage	5% to 93% at 40°C (104°F) (no condensation)
<b>Special features</b>	
Quality assurance	Acc. to ISO 9002
Maintenance	Maintenance-free (no battery)

## XBT ZG9292 Pin assignment

Pin	SUB D connector RS232	SUB D connector MPI
1	DCD	n.c.
2	Rx	M24VDC
3	Tx	DATA.B
4	DTR	RTS AS
5	GND	0V (M5VDC)
6	DSR	+5VDC
7	RTS	+24VDC
8	CTS	DATA.A
9	RI	RTS XBT G

## Connecting cables

