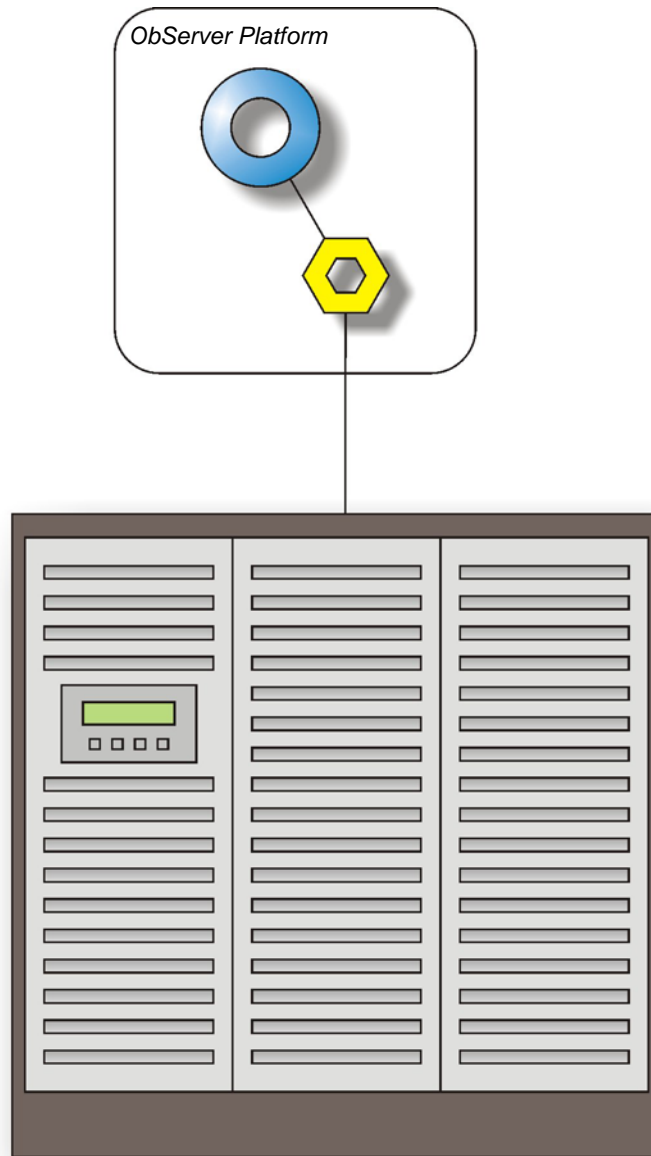# Product Engineering Guide

OSM v20 ExideBCM v11

Introduction

The ExideBCM OSM links Powerware Corporation (previously Exide Electronics, and IPM) products supporting the Binary Computer Mode (BCM) protocol to ObServer. Compatible power conditioning products include UPS systems such as the Balanced Power III, and Power Distribution Modules.

Engineering

Step 1 – Install OSM

The ExideBCM OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure Powerware UPS

The UPS has two optional serial ports that can be configured. The port connected to the COM port should be configured for the Computer format.

Step 3 – Connect COM Port to Powerware UPS

Using cable, connect the Powerware Machines UPS to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in ExideBCM OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the ExideBCM OSM to an available channel. Refer to _'ObServer v20 Application Engineering Guide'._

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure ExideBCM OSM

The COM port, baudrate, device number, byte format, formulae, and user alarms are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
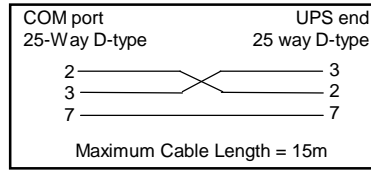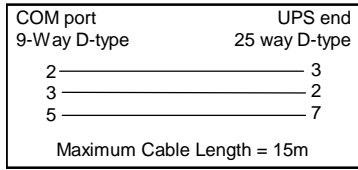
Step 6 – Access Objects within the UPS

Values from the Powerware UPS are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the UPS is as follows:

COM port 9-Way D-type	UPS end 25 way D-type
2 ——————————— 3	
3 ——————————— 2	
5 ——————————— 7	
Maximum Cable Length = 15m	

COM port 25-Way D-type	UPS end 25 way D-type
2 ——————————— 3	
3 ———— ✕ ———— 2	
7 ——————————— 7	
Maximum Cable Length = 15m	

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object[1]	Label	R/W	Type
S*c*	ExideBCM System connected to channel *c*	-	*[ExideBCM v11]*
M*c*	ExideBCM Module connected to channel *c*	-	*[OSM v20\ ExideBCM v11]*

Notes

[1]   The ObServer channel number, *c*, is a number in the range 1…40.