

<<<< SMART FACTORY 4.0: OPERATIONAL SYSTEM OVERVIEW >>>>  
Ecosystem: Cyber-Physical Systems

## 1. SYSTEM ARCHITECTURE

The OHM Smart Factory ecosystem integrates hardware (Panasonic NPM/CM) with enterprise software (ERP/MES) to create a seamless flow of production data. This architecture enables autonomous decision-making and real-time correction.

## 2. CORE SYSTEMS

- \* MES (Manufacturing Execution System): Control and tracking of floor ops.
- \* ERP Integration: Automated BOM/Inventory synchronization with B2B partners.
- \* WMS (Warehouse Management System): Mobile-based material handling.
- \* RFID TRACING: Passive asset tracking for repair units and WIP storage.

## 3. DATA SECURITY

All production data is stored on secure, redundant local servers with off-site cloud backups. Customer design data (Gerber/BOM) is strictly isolated and encrypted following international IP protection standards.

## 4. PARTNER ACCESS

Partners can request access to the Integrated Operations Portal to view live production health, historical quality logs, and inventory visibility reports.