New VLT® Ethernet Powerlink Option

The VLT® Ethernet Powerlink protocol uses standard Fast Ethernet, extended by specific scheduling mechanisms, for deterministic data transfer.

Ethernet Powerlink represents the second generation of field-bus. It uses high bit rate of Industrial Ethernet, applying the full power of IT technologies to the automation world for the first time.

Ethernet, when introduced in automation, is still open and independent.

Ethernet Powerlink provides high performance real-time and time synchronization features. Due to its CANopen-based communication models, network management and device description, this model offers much more than just a fast communication network. This architecture provides all additional system features necessary for distributed automation systems in a standardized manner.

This makes it easy to provide integration of systems built up with devices from multiple manufacturers.

The perfect solution for:

- Dynamic motion control applications
- Material handling
- Synchronisation and positioning applications

Features	Benefits
• Cycle-times down to 200us	• meets toughest real-time demands
• High bandwidth Asynchronous IP data access	• multi-purpose bus
• Jitter < 1us • Velocity, position and marker synchronizing	• maximum performance and precise timing
• Integrated hub for daisy chaining	• supports any network topology
• No proprietary ASICs needed • License free	• saving money
• Industry proven • Large installed base	• widely supported • available and widely deployed
• Plug-and-Play commissioning	• easy to learn and use
• CANopen application layer	• backwards compatibility
• Integrated safety technology	• saves cabling and commissioning costs