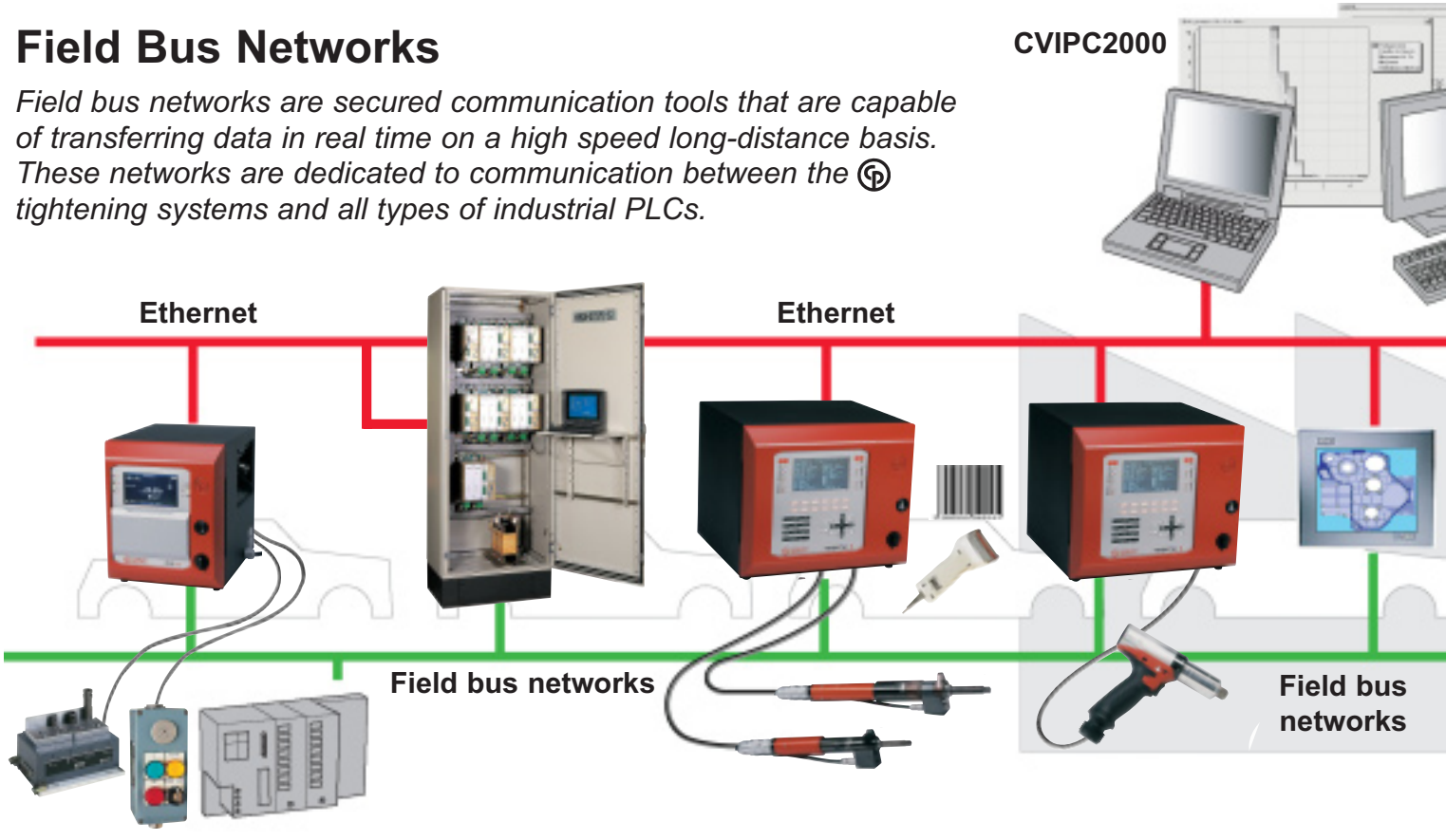
Networks

Communication between the various industrial on-line production systems is today a key factor to control and increase productivity. With the inclusion of field bus networks and Ethernet in our assembly systems, has the right solution for you.

Field Bus Networks

Field bus networks are secured communication tools that are capable of transferring data in real time on a high speed long-distance basis. These networks are dedicated to communication between the tightening systems and all types of industrial PLCs.



The following **Field bus networks** are available on the CVI range: Profibus DP, Modbus+, Interbus S, DeviceNet

- Inputs/Outputs: all the controller I/O's can be used via the networks

Inputs:
- Start/Stop cycle
- Cycle no.
- Run reverse
- Reset
- Etc.

Outputs:
- 'OK' or 'NOK' results
- Number of 'OK' cycles
- In cycle
- Cycle acknowledge
- Etc.

- Sending and retrieving digital data
  Sending out: part number, bar code, vehicle code, etc.
  Retrieval - Code / Results / Torque+Angle+Date+Time+Report, etc.
- Programming torque, angle and speed parameters in the tightening cycles already programmed

To order your field bus network kit, select the part number below that matches your controller:

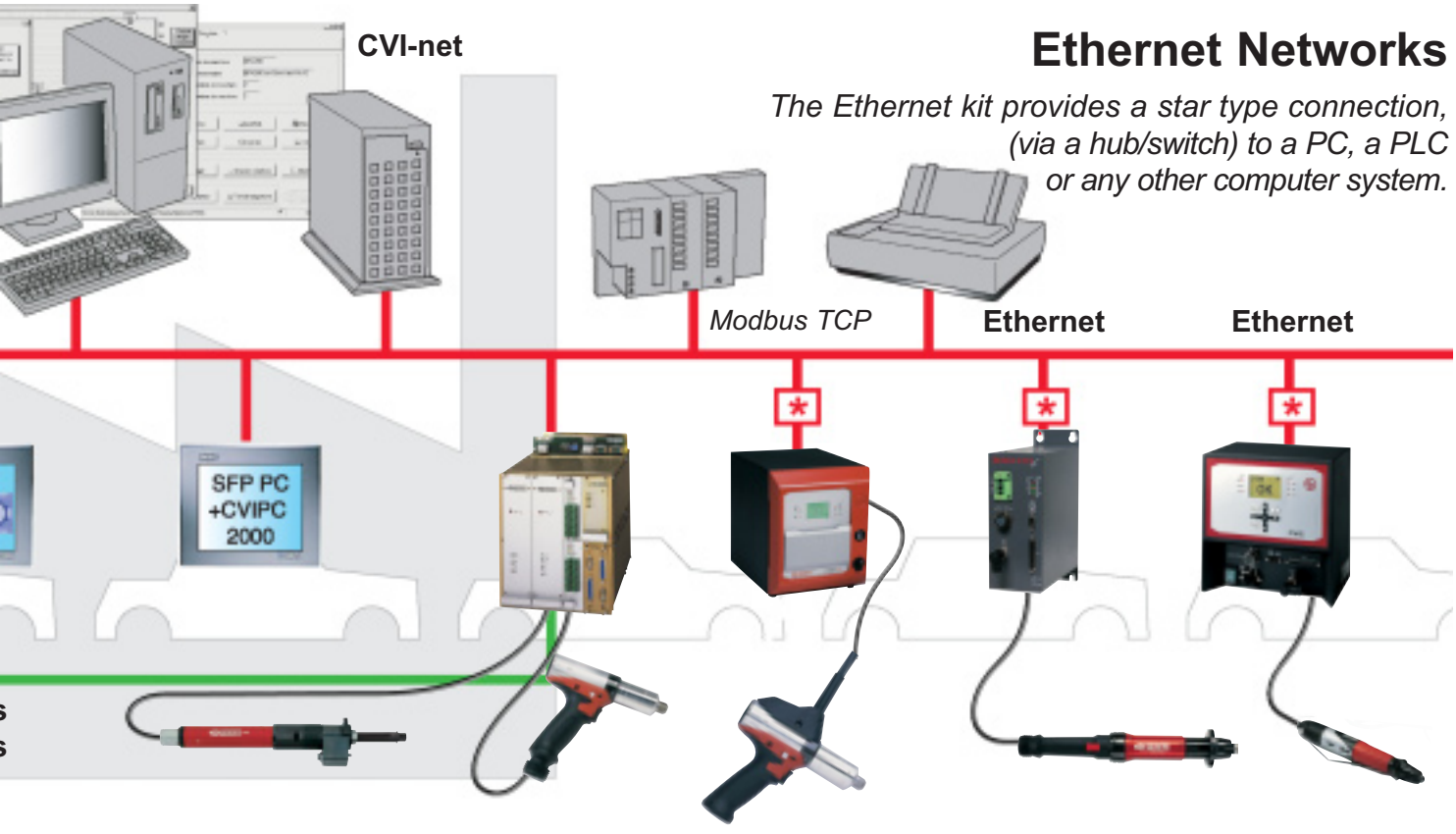
TWINCVI II CVI II	KIT	PART NUMBER
	MODBUS+	615 929 005 0
	PROFIBUS DP	615 929 008 0
	INTERBUS S	615 929 011 0
	DEVICENET	615 929 014 0

MODCVI	KIT	PART NUMBER
	MODBUS+	615 929 006 0
	PROFIBUS DP	615 929 009 0
	INTERBUS S	615 929 012 0
	DEVICENET	615 929 015 0

CPUCVI	KIT	PART NUMBER
	MODBUS+	615 929 007 0
	PROFIBUS DP	615 929 010 0
	INTERBUS S	615 929 013 0
	DEVICENET	615 929 016 0

Ethernet Networks

The Ethernet kit provides a star type connection, (via a hub/switch) to a PC, a PLC or any other computer system.



The **Ethernet Kit** can be installed on all systems in the CVI range (except CVIS and CVIC*).

- Inputs/Outputs: all the controller I/O's can be used via the networks

The **Ethernet Kit includes 3 sockets.**
It allows therefore to have a simultaneous connection to the 4 applications below:
- CVIPC2000/SFP PC
- Sending measurement results in order of occurrence
- An ISaGRAF application: Debug
- A MODBUS TCP type PLC network
- CVI-net

The advantages of an Ethernet link:
- High speed data transfer (100Mbits/s)
- Collision control, preventing the loss of information
- Long-distance transfer (n x 100 m)
- Standard RJ45 cables
- Multi-application connection on the same medium (cable)
- No theoretical limitation to the number of controllers connected
- The leading edge of information transfer systems

All the data transferred via field bus networks can also be transferred via Ethernet in Modbus TCP.

*For CVIS and CVIC, an Ethernet connection is obtained through a Smart Ethernet Interface

MODEL	PART NUMBER
Ethernet CVI KIT	615 929 018 0
Cable for TWINCVI controller	615 917 409 0
Smart Ethernet Interface	615 936 040 0