

The FIPIO fieldbus is a standard means of communication between different control system components. It enables Max 256 devices to be connected at the connection point integrated in the processor. This fieldbus conforms to the WorldFip standard based on producer/consumer mechanisms. It is designed for remote location of I/O up to 15 km away. FIPIO protocol is designed to support both deterministic data-transfer and also random messaging. That means, you can build in the ability for your system to transmit random messages (eg, alarm data, periodic reports, status messages) without upsetting its ability to transmit time-critical data exactly on time. FIPIO will ensure that your fast control loops function correctly -- and you can send status/diagnostic messages down the same bus with no problem.

In addition, the option of dual redundant cabling with fast changeover at a low level mean that FIPIO can provide the rapid response and high availability demanded of a safety system where the plant has no "fail safe"


Where is it used and with what products?

FIPIO is almost predominantly used in France. Renault for example uses this network in its factories where various types of automation products need to support this network. Schneider & Square D and two companies who are largely involved with FIPIO.

FIPIO & AnyBus

HMS has the embedded AnyBus-S Slave Interface and AnyBus-X Bridge/Gateway giving you a choice to bridge FIPIO with any of 14 other fieldbus networks.

FIPIO Facts	
Network Size:	Max 256 nodes
Network Length:	Up to 40 km
Data Rate:	31.25 Kbps, 1 & 2.5 Mbps, 6 Mbps FiberBus
Bus Topology:	Peer to peer
Addressing:	Remote I/O
System Feature:	Cyclic bus traffic is fully controlled. Cyclic traffic is unaffected by other traffic. Fresh and "Prompt" data quality. Twisted pair, fiber cabling. Supports time-critical "variables" and "messages" (described later in this module). Time-critical "variables" can be "cyclic" or "event" variables

FIPIO AnyBus Products	
	Embedded Products ▶ AnyBus-S Slave Interface
	Networking Products ▶ AnyBus-X Bridge/Gateway

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