EtherNet/IP

EtherNet/IP is a common fieldbus for the connection of inverters to different control systems in plants.

Bus-related information		
Name	EtherNet/IP	
Communication medium	Ethernet 10 Mbps, 100 Mbps, half duplex, full duplex	
Use	Connection as EtherNet/IP adapter	
Status display	2 LEDs (CIP Module Status, CIP Network Status)	
Connection designation	X266, X267	

Technical data			
Communication profile		EtherNet/IP	
		AC Drive	
Bus terminating resistor		Not required	
Integrated bus terminating resistor		No	
Network topology			
Without repeater		Line, tree, ring	
With repeater		-	
Device			
Type		Adapter (device)	
Max. Number		254	Per subnetwork
Address		Station name	
Max. Cable length	m	Not limited	The length between the devices is decisive
Max. cable length between two devices	m	100	
Process data			
Transmit PDOs		16 words	Max. 32 bits (4 bytes) as a coherent PDO object
Receive PDOs		16 words	
Cycle time	ms	> 4	
Switching method		Store-and-Forward Cut-Through	
Switch latency	µs	~ 125	At maximum telegram length
Other data		Additional TCP/IP channel	

Communication time			
Communication time depends on		Processing time in the inverter	Time between start of a request and arrival of response
		Telegram runtime (baud rate, telegram length)	
		Nesting depth of network	
		Bus load	

Processing time of process data			
Update cycle	ms	1	In the inverter
Processing time	ms	0 … 1	
Application task runtime of the technology application used (tolerance)	ms	1 … x	

Other data
Note: There are no interdependencies between parameter data and process data.